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**McCall – Old City Dump Site
Targeted Brownfields Assessment
McCall, Idaho**

Technical Direction Document Number: 07-03-0007

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Prepared for:

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List of Abbreviations and Acronyms

bgs	below ground surface
E & E	Ecology & Environment Inc.
EPA	United States Environmental Protection Agency
ESA	Environmental Site Assessment
GPS	Global positioning system
IDEQ	Idaho Department of Environmental Quality
IDTL	Initial default screening level
IDW	Investigation-derived waste
mg/L	milligrams per liter
QA/QC	quality assurance/quality control
PCBs	polychlorinated biphenyls
pCi/L	picoCuries per liter
RACER	Remedial Action Cost Engineering and Requirements
RCRA	Resource Conservation and Recovery Act
RSL	Regional screening level
SQAP	Sampling and Quality Assurance Plan
SPAF	Sample Plan Alteration Form
START	Superfund Technical Assessment and Response Team
SVOCs	semi-volatile organic compounds
TAL	Target Analyte List
TBA	Targeted Brownfields Assessment
TCLP	toxicity characteristic leaching procedure
TM	Task Manager
UPB	Unit Price Book
VOCs	volatile organic compounds

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Introduction

Pursuant to the United States Environmental Protection Agency (EPA) Region 10 Superfund Technical Assessment and Response Team (START) Contract EP-S7-06-02 and Technical Direction Document 07-03-0007 Ecology and Environment, Inc. (E & E) performed a Targeted Brownfields Assessment (TBA) at the McCall – Old City Dump Site in McCall, Idaho. The EPA's Brownfields Economic Redevelopment Initiative is designed to empower states, cities, tribes, communities, and other stakeholders in economic redevelopment to work together in a timely manner to prevent, assess, safely clean up, and sustainably reuse brownfields sites (EPA 2000).

The purpose of this project is to provide the City of McCall with an assessment to determine if contamination is present at the site. This assessment involved the sampling of specific areas of concern within the study area. This assessment also provides an overview of recommended cleanup options and estimates of relative costs, should they be required.

The objective of this TBA report is to present the results of the limited site sampling for preliminary site characterization purposes. This report is organized as follows:

- Section 1 - Introduction: authority for performance of this work and summary of report contents;
- Section 2 - Site Description: description of site conditions, history, and site concerns;
- Section 3 - Investigation and Results: summary of the field effort and chemicals detected at the site and a comparison of detected chemical concentrations to criteria values;
- Section 4 - Cleanup Options and Cost Estimate: cleanup options for the site based on sample results and criteria values;
- Section 5 - Conclusions and Recommendations: recommendation for the site based on the information gathered during this investigation;
- Section 6 - References: list of references cited throughout the text;
- Appendix A - Photographic Documentation: photographs taken during the initial site visit and during the sampling event;
- Appendix B - Sample Plan Alteration Form: description and justification for deviations from the approved sampling plan;
- Appendix C – Sample Collection and Analytical Summary Tables: tables providing a summary of the samples collected, the analyses applied, and the analytical results;

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- Appendix D - Sample Results and Data Validation Memorandum: laboratory analytical results for all samples and a summary of Quality Assurance/Quality Control (QA/QC) information; and
- Appendix E - Global Positioning Coordinates: a list of all sample location coordinates.
- Appendix F - Remedial Action Cost Engineering and Requirements Estimate Documentation Reports.

Site Description

2.2.1 Site Summary

The site is located on approximately 4.35 acres in McCall, Idaho (Figure 2-1) that was previously operated by the City of McCall as a landfill. Access to the property is off Samson Trail, a paved public road, from the north and northeast (Figure 2-2). The property is currently an undeveloped, open grassy area. Residential properties border the property to the north across Colorado Street, the east across Samson Trial, and immediately to the south. The area to the west is undeveloped forested property. A drainage ditch, running roughly north/south, is present along the western edge of the property. (URS 2007)

The site was deeded to the City of McCall in 1929 by the (b) (6) and (b) (6) (b) (6) families. Operation of the property as a landfill began in 1930 and ended in 1958 when the city opened a new landfill southwest of the site near the airport. Disposal at the landfill was limited to household waste. Hazardous substances are not known to have been disposed on-site. The landfill covered the entire property. The depth of the landfill is not known and the amount of fill covering the landfill also is not known; however, the surface of the property is elevated relative to surrounding topography (URS 2007). The surface of the landfill has been graded, having a general surface gradient to the northeast (E & E 2007).

Large pieces of rusted scrap metal are visible protruding from a couple locations along the perimeter slopes of the landfill. Larger piles of rusted scrap metal, some of which appear to be old household appliances or car carriages, are present at the southern base of the landfill and also on the east end of the landfill (E & E 2007).

No other debris is present at the property and the City reports that unauthorized dumping on the property has not been a problem since the landfill closed (URS 2007).

Environmental concerns at the site are those common to landfills and include potentially contaminated soil, groundwater, or surface water; methane gas generation; and settlement. Contaminants of concern include hazardous substances and petroleum, although concentrations of some of these contaminants can be expected to have decreased over time as the waste decomposes.

Natural soils in the area of the site are generally very cobbly, sandy loam with moderate infiltration rates, high hydraulic conductivity rates, and low water holding capacity. Fill soil for the landfill was obtained from the adjoining hillside to the south of the property. Site specific groundwater data is not available;

however, based on well data information, groundwater at the site has been estimated to occur between 12 and 20 feet below ground surface (bgs). Groundwater in the vicinity of the site is not used for drinking water (URS 2007). Homes in the area of the site are on municipal water supplied by Lake Payette which is located approximately 0.5 mile to the north. Local groundwater is insufficient to be used as a drinking water source. The housing development planned for this property would be on municipal water (E & E 2007).

The direction of groundwater flow has been projected to be to the southwest, following the topography toward the North Fork of the Payette River located approximately 1 mile west of the site. There does not appear to be potentially environmental sensitive areas adjacent to the site that would have the likelihood of being impacted by surface water runoff or groundwater from the site. (URS 2007)

To date, the property boundaries for the landfill have not been determined. It is possible that portions of the landfill, in particular the piles of scrap metal at the west and east sides of the landfill, may not be within the property boundaries. (E & E 2007)

2.2.2 Projected/Planned Site Uses

The current property owner is the City of McCall who purchased the property in 1929. The city has expressed an interest in redeveloping the site as a location of affordable community housing. The property is zoned R-4, for no more than four residences per acre. (URS 2007) The city may seek a conditional use variance of this zoning to allow for the construction of apartment buildings.

2.2.3 Previous Investigations

In May 2007, a Phase I Environmental Site Assessment (ESA) was conducted by URS Corporation for the Idaho Department of Environmental Quality (IDEQ; URS 2007). The purpose of the ESA was to gather information about the site and surrounding areas to identify conditions indicative of releases or threatened releases of hazardous substances or petroleum products. The Phase I ESA was conducted in general accordance with ASTM E 1527-05. The report details site conditions and those of nearby or adjacent properties that could have a negative environmental influence on the site.

The report indicates that no direct evidence of recognized environmental conditions exist at the site. However, the use of the site as municipal landfill likely resulted in the presence of hazardous substances or petroleum products on the property. The ESA recommended an investigation of potential impacts to soil, surface water, and groundwater at the site prior to redevelopment.

The ESA also included a concern for the presence of unacceptable levels of radon in future residences placed on the property, particularly within lower levels of these structures. This concern was based on a review of radon test results for the county which has concentrations ranging from 0.3 picoCuries per liter (pCi/L) to

10.4 pCi/L of air. The county average is 3.40 pCi/L of air, which is near the EPA indoor radon screening potential of 4.0 pCi/L of air. As explained in the ESA, radon-222 is a colorless, odorless, tasteless, radioactive gas that occurs naturally in soil, rocks, underground water, and air. As radon-222 decays it generates four radioactive elements called radon progenies. These elements are polonium-218, lead-214, bismuth-214, and polonium-214. These elements have such short half-lives that they exist only in the presence of radon. The progeny are ultra-fine solids which tend to adhere to other solids, including dust particles in the air and solid surfaces in a room. They adhere to lung tissue when inhaled and bombard the tissue with alpha particles, thus creating the health risk associated with radon. Breathing radon decay products increases the chance of developing lung cancer. The EPA-suggested action level of 4.0 pCi/L of air for residences is based largely on the ability of current technology to reduce radon concentrations to that level or below. The risk associated with a lifetime exposure to a radon level of 4.0 pCi/L is roughly equivalent to that associated with smoking ten cigarettes per day.
(URS 2007)

2.2.4 Site Visit

On July 26, 2007, a site visit was conducted. During the site visit, the land at the site was viewed and photographs were taken. Photographic documentation is provided in Appendix A. Attendees included the following people:

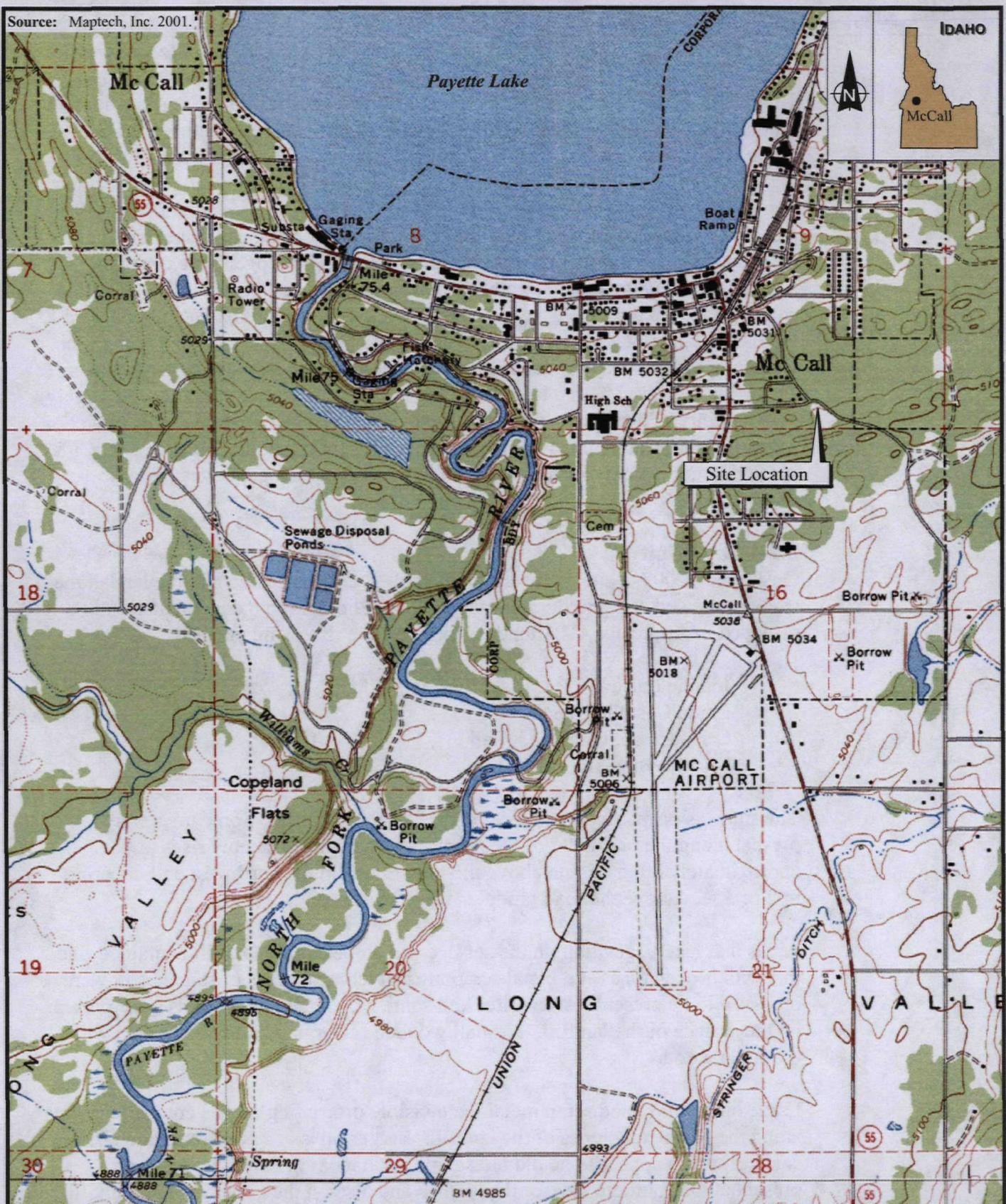
Joanne LaBaw, EPA Task Manager (TM)
Linda Costello, E & E
Carol Coyle, City of McCall
Eric Traynor, IDEQ

The site was primarily vegetated with grass on its surface. Some trees were present along the perimeter of the property. The landfill steeply rises to approximately 20 to 25 feet above the road grade on the northwest end, tapering to 2 or 3 feet above the road grade on the northeast end.

Areas that lack vegetation on the surface and slopes of the landfill contained fine dirt with broken glass and metal scrap intermixed. No areas of stained soil were observed to be present. A few tires and some wood and metal debris were present on the surface of the landfill. A small wooden bike ramp had been erected with the scrap wood.

Large pieces of rusted scrap metal were visible protruding from a couple locations along the perimeter slopes of the landfill. Larger piles of rusted scrap metal, some of which appear to be old household appliances or car carriages, were present at the southern base of the landfill and also on the east end of the landfill.

Source: Maptech, Inc. 2001.



McCALL - OLD CITY DUMP SITE
McCall, Idaho

Figure 2-1

SITE LOCATION MAP



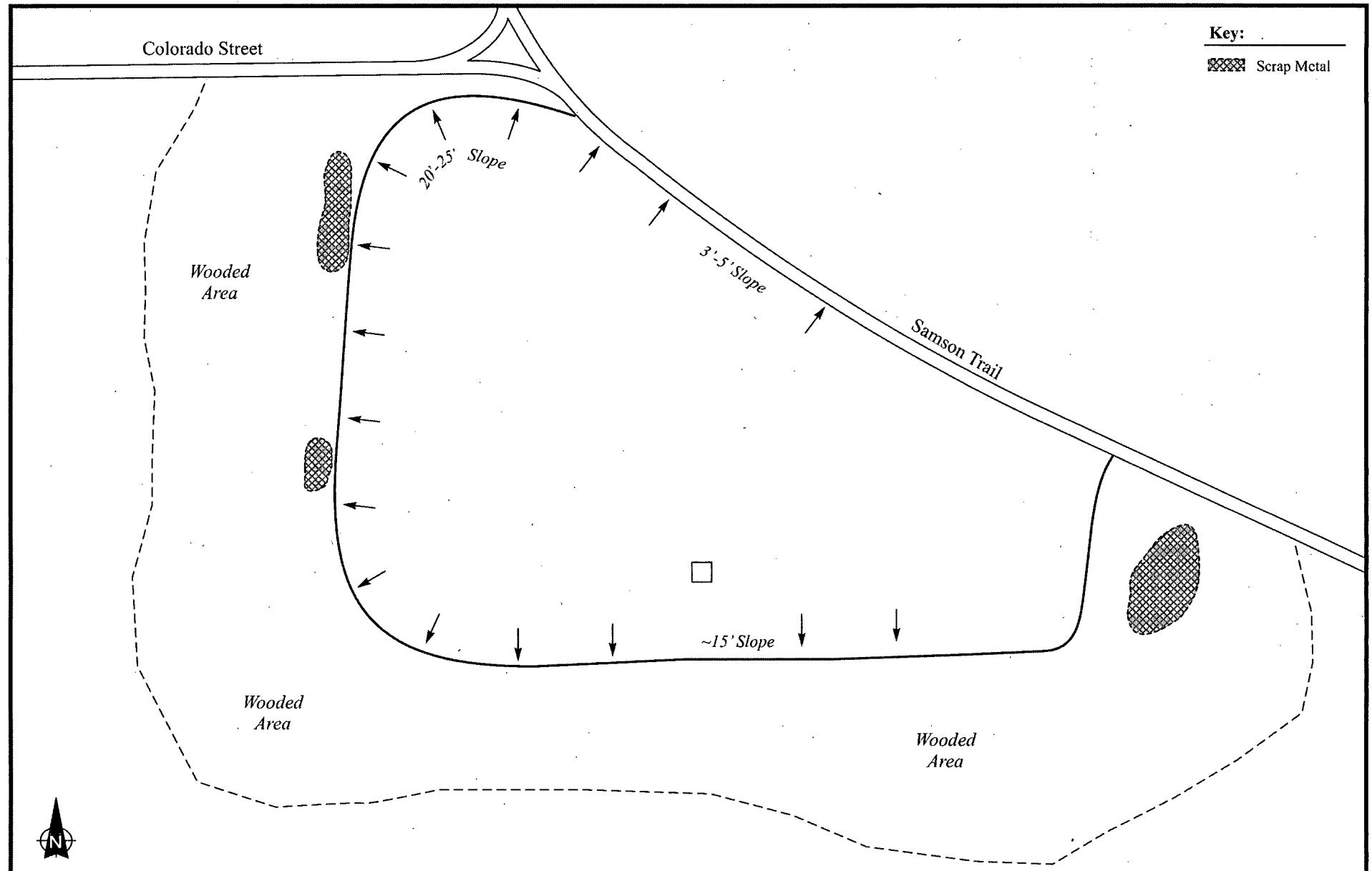
ecology and environment, inc.
International Specialists in the Environment
Seattle, Washington

0 1,000 2,000
Approximate Scale in Feet

Date:
1-15-09

Drawn by:
AES

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ecology and environment, inc.
International Specialists in the Environment
Seattle, Washington

McCALL - OLD CITY DUMP SITE
McCall, Idaho

Not to Scale

Date:
1/15/09

Drawn by:
AES

Figure 2-2
SITE MAP

10:START-3\07030007\fig 2-2

3

Investigation and Results

E & E conducted a field sampling event at the McCall – Old City Dump Site from July 29, 2008 to July 31, 2008. Field work was conducted in cooperation with the City of McCall and IDEQ; representatives of which were onsite during portions of the field event. The City of McCall provided both a backhoe operator and a backhoe to support trenching activities. IDEQ provided an archeologist during trenching activities to ensure proper handling of discovered archeological artifacts.

3.1 Sampling design

A judgmental sampling design was used for the McCall – Old City Dump Site TBA to fulfill specific project objectives by collecting biased data required for preliminary site characterization. The following subsections describe the types of sampling, analysis, and measurements that were conducted. Samples were collected in accordance with an approved sampling and quality assurance plan (SQAP; E & E 2007). Deviations from the SQAP are described in the Sample Alteration Form (SPAF) provided in Appendix B; as well as being outlined below.

Although general sample locations (i.e., features to sample) were selected prior to mobilization to the subject property, the exact locations were selected once the field sampling crew was on site. Locations were selected to maximize the possibility that areas of potential contamination were discovered. Photographic documentation of the samples, sampling locations, and site features are provided in Appendix A.

To evaluate the presence or absence of contamination at various areas at the site, 25 samples were collected; including QA samples. Soil sample locations are depicted on Figure 3-1.

3.1.1 Soil Sampling

Subsurface soil samples were collected from five trenches (Trench 1 through 5) excavated on the landfill. The trenches were excavated to the bottom of the landfill. Each trench ranged from eight to 12 feet long, three to four feet wide, and had variable depths from six to 12 feet. Two subsurface soil samples were collected from the bottom of each trench, but within landfill material. The excavator bucket was used to safely retrieve soil from trench bottoms. Sample material was collected from areas not in contact with the excavator bucket. Sample aliquots for volatile organic compounds (VOCs) analysis were collected first, then material in the center of the backhoe bucket was homogenized using a

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dedicated stainless steel spoon. This homogenized material was then transferred to appropriate sample containers. The subsurface soil samples were collected to assist in determining whether the landfill in its current state represents a public health or environmental hazard.

The landfill was divided into ten zones named Quadrants 1 through 10 (see Figure 3-1). One 4-part composite surface soil sample was collected from each zone for a total of 10 composite samples. Areas of exposed soil or near scrap metal piles were targeted within each zone for sampling. Composite surface soil samples were collected from 0 to 6 inches bgs with a stainless steel spoon. After light blending in a stainless steel bowl, the sample aliquot for VOCs analysis was collected. Then the remainder of the sample material was homogenized and placed into appropriate sample containers. These surface soil samples were collected to assist in determining whether the landfill in its current state represents a public health or environmental hazard based on dermal exposure to surface conditions.

All surface and subsurface soil samples were analyzed for target analyte list (TAL) metals, VOCs, semivolatile organic compounds (SVOCs), and chlorinated pesticides and polychlorinated biphenyls (pesticides/PCBs). In addition, five subsurface soil samples (i.e., one from each trench) were analyzed for Toxicity Characteristic Leaching Procedure (TCLP) metals, TCLP VOCs, TCLP SVOCs, and TCLP pesticides.

3.2.2 Groundwater Sampling

Sampling proposed in the SQAP included drilling four borings using a Geoprobe™ direct push drill rig for the purpose of collecting groundwater samples around the perimeter of the landfill (i.e., one from each side of the property). These samples were intended to assist in determining whether local groundwater has been impacted, or is migrating from the site.

The field team made seven attempts to reach groundwater at three locations before abandoning the effort per agreement with the EPA TM. The first location attempted was on the north side toe of the landfill in the road right-of-way. Refusal was met at 24 feet bgs. The location was offset 1 foot where refusal was met at 24 feet bgs. The location was offset a final time 5 feet to the south where refusal was met at 26 feet bgs. Groundwater was not encountered in these borings.

The field team moved to the east side of the landfill. Refusal was met at 5 feet bgs. The location was offset 15 feet to the south where refusal was met at 16 feet bgs. The location was then offset another 20 feet to the south where refusal was met at 15 feet bgs. Groundwater was not encountered in these borings.

Next, the field team moved to the west side of the landfill. One attempt to reach groundwater was conducted in this area. Refusal was met at 30 feet bgs. Once again, groundwater was not encountered. Following consultation with the EPA



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TM, the decision was made to abandon efforts to retrieve groundwater samples. A representative for the City of McCall stated that the planned residential development of this property will not be allowed septic systems or wells since a city water line passes within 300 feet of the site.

3.2.3 Soil Gas Sampling

Four soil gas samples were collected. All soil gas samples were collected at 8 feet bgs using a Geoprobe(TM). After the Geoprobe(TM) drill rods were driven to 8 feet bgs, the drive tip was unscrewed. The drill rod was then pulled back approximately 1 foot to release the drive tip. A post-run tubing adapter was attached to Teflon tubing, lowered inside the drill rod, and screwed into the end of the drill rod. The Teflon tube was then cut to length and attached to a pre-set regulator and a 1 liter suma canister. Each of the samples were collected over an one hour period. The regulators were preset to flow at approximately 1 liter per hour. The regulator valves were closed while there was still some vacuum left in the suma canister. Samples were collected over a 1 hour period. All samples were analyzed for VOCs. The approved SQAP called for methane analysis; however, this analysis was inadvertently excluded on chain-of-custody forms.

3.2.4 Geophysical Sampling

Several soil samples were collected for analysis of geophysical parameters to assist in determining construction conditions at the site. These samples included:

- Two soil samples (MC07SB and MC09SB) were collected from areas within the landfill that are likely to be compacted or disturbed. These samples were from previously disturbed soil in the trenches and were sent for compaction analysis (i.e., maximum density).
- Two surface soil samples (MC12SS and MC19SS) were collected from the top of the landfill for Atterberg limits (i.e., plasticity) and water analyses (i.e., moisture content).

3.2 Sampling Methods

The field methods used during the McCall – Old City Landfill field sampling event followed the requirements detailed in the SQAP (E & E 2008). When deviations to the SQAP were required they were noted in the field logbook, the SPAF, and approved by the EPA Task Monitor. As previously mentioned, a copy of the SPAF is provided in Appendix B.

A total of 25 samples (including QA/QC samples) were collected for this TBA. The samples were analyzed for a variety of parameters based on suspected contaminants. A description of each sample collected and the analyses applied to it are provided in Appendix C, Tables C-1 and C-2.

Copies QA/QC validation memoranda are provided in Appendix D. The following laboratories performed analytical work for this TBA:

- **Datachem Laboratories, Inc. in Salt Lake, Utah.** Twenty soil samples were submitted for VOCs, SVOCs, pesticides/PCBs analyses. In addition, one water QC sample was submitted for VOCs analysis.

3. Investigation and Results

- **Bonner Analytical Testing Company of Hattiesburg, Mississippi.** Twenty soil samples were submitted for TAL Metals analysis.
- **EPA's Environmental Laboratory in Manchester, Washington.** Four soil samples were submitted for TCLP VOCs, TCLP SVOCs, and TCLP pesticides analyses.
- **Air Toxics, LTD in Folsom, California.** Four soil gas samples were submitted for VOCs analysis.
- **Analytical Resources, Inc. in Tukwila, Washington.** Two soil samples were submitted for compaction analysis and two soil samples for Atterberg limits and water content analyses.

3.3 Regulatory Standards

Regulatory standards applicable to the site have changed since the SQAP for the site was finalized. For this reason, rather than comparing the analytical results to the standards cited in the SQAP, the results for soil at the site were updated and compared to IDEQ Initial Default Target Levels (IDTLs; IDEQ 2004); and when no soil value existed for an analyte, the result was compared to EPA Regional Screening Levels (RSLs) for residential soil (EPA 2008). These standards are provided in the first columns the analytical summary provided in Tables C-3 and C-4 in Appendix C. Results for TCLP and soil gas used to aid in determining cleanup options as presented in Section 4. TCLP results were compared to EPA TCLP standards to determine whether they are a characteristic hazardous waste as per 40 CFR, Part 261.24 for disposal purposes. The results of this comparison are discussed in Section 4.

3.4 Sampling Results

The analytical results for all samples are provided in Appendix C, Tables C-3 through C-5. The frequency of exceedance of criteria values for all soil samples are presented in Table 3-1. This table does not include analytes which were not detected in at least one sample. Analytical results were evaluated according to the following steps prior to being reported in the tables:

- Analytes that were not detected in any samples were omitted from their respective table;
- All detected concentrations are shown in bold type; a nondetected concentration is shown as the detection limit reported by the laboratory (i.e., 0.66 U);
- The regulatory standards provided in the first two columns of these tables were used as criteria values in determining whether potential contamination is present in the samples;
- Analytes detected at concentrations greater than the criteria value were considered a potential concern, and the concentration is shaded; and
- Analytes with no comparative criteria levels are listed in the tables, but could not be qualitatively evaluated.

Based on EPA Region 10 policy, evaluation of aluminum, calcium, iron, magnesium, potassium, and sodium (i.e., common earth crust metals) is generally used on in mass tracing, which is beyond the scope of this report. These analytes



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are not included in the evaluation or discussions of sample results, but are provided in the analytical summary tables in Appendix C.

3.4.1 Trench Subsurface Soil Samples

A total of ten subsurface soil samples (MC01SB through MC10SB) were collected from five trenches at a rate of two samples per trench (Table C-3). One VOC, methylene chloride, was present above the IDTL in one subsurface soil sample. Additionally, eight metals (arsenic, cadmium, lead, manganese, mercury, nickel, silver, and zinc) were present above the IDTL in subsurface soil samples. One metal (iron) was above the EPA RSL; an IDTL does not exist for this metal. All trenches contained arsenic and manganese above regulatory standards. Trench 1 excavated on the northwest end of the landfill where the fill material is deepest, contained the greatest number of metals above regulatory standards. SVOCs, pesticides, and PCBs were either not detected or were not present above regulatory standards in trench subsurface soil samples. Figure 3-2 provides sample results for arsenic, lead, manganese, and mercury. The figure depicts those concentrations that exceeded regulatory standards in red font.

3.4.2 Quadrant Composite Surface Soil Samples

A total of ten 4-part composite samples (MC11SS through MC20SS) were collected from ten quadrants established across the site (Table C-4). One VOC, methylene chloride, was present above the IDTL in two composite surface soil samples. These were collected from Quadrants 5 and 9. Additionally, six metals (arsenic, cadmium, lead, manganese, mercury, and zinc) were present above the IDTL in composite surface soil samples. All composite samples contained arsenic and manganese above regulatory standards. Further, lead and mercury were present above regulatory standards eight out of ten samples. SVOCs, pesticides, and PCBs were either not detected or were not present above regulatory standards in trench subsurface soil samples. Figure 3-3 provides sample results for arsenic, lead, manganese, and mercury. The figure depicts those concentrations that exceed regulatory standards in red font.

3.4.3 Soil Gas Samples

A total of four soil gas samples (MC21SG through MC24SG) were collected across the site (Table C-5). Both acetone and methylene chloride were detected in all four samples. Sample MC22SG, collected on the southeast end of the landfill near Trench 4, also contained 1,3-butadiene, hexane, 2-butanone, benzene, carbon disulfide, tetrachloroethene, and toluene. Sample MC23SG, collected near the southwest end of the landfill, also contained hexane and carbon disulfide. Finally, sample MC24SG, collected near the west central portion of the landfill, also contained 2-butanone and toluene. Figure 3-4 provides concentrations for all positive soil gas sample results.

3.5 Trenching and Archeological Investigation

A total of five trenches were excavated on top of the landfill to determine landfill contents, the depth of the landfill, and to aid in subsurface soil sample collection (see Figure 3-1). The City of McCall provided both a backhoe and an operator to

3. Investigation and Results

excavate trenches. IDEQ provided subcontracted archeologist to monitor subsurface explorations for the presence and condition of cultural artifacts.

Each trench ranged from eight to 12 feet long, three to four feet wide, and had variable depths from six to 12 feet. While the backhoe was excavating, workers watched for artifacts and other materials. When the dirt pile needed to be examined, the backhoe would stop for the necessary amount of time to examine materials. Excavations continued until it was believed the bottom of the landfill was encountered. The indication for the bottom of the landfill was the presence of rock, sand, and silt. Each dirt pile was examined extensively. Workers were not allowed in the bottom of the trenches due to the chance of the side walls collapsing.

Archeological findings are summarized in the *Cultural Resource Monitoring Report for the Former McCall Colorado Street Dump* prepared by Frontier Historical Consultants, Inc. for IDEQ (Frontier 2008).

3.5.1 Trench Descriptions

Trench 1 – This trench was excavated to native soil at approximately 12 feet bgs. At approximately 2 feet bgs large chunks of brunt wood, glass, and car parts were present. At approximately 7 feet bgs a water tank surrounded with insulation was encountered. At approximately 10 feet bgs evidence of additional burned material was present (i.e., melted glass) as were several bottles and wood debris. Metal debris and a cooking stove were encountered at approximately 10 to 11 feet bgs. The quantity of debris increased with depth; as did the moisture content of the soils; however, saturated soils were not encountered. The bottom of the landfill appeared to be present at approximately 12 feet bgs.

Trench 2 – This trench was excavated to native soil at approximately 12 feet bgs. At approximately 3 feet bgs high quantities of glass debris were present. From 6 to 9 feet bgs, wood debris, some burnt, was increasingly present. At 11 feet bgs metal debris was in encountered. Moist soil was present at 3 feet bgs. Moisture content increased with depth; however, saturated soils were not encountered. The bottom of the landfill appeared to be present at approximately 12 feet bgs.

Trench 3 – This trench was excavated to approximately 6.5 feet bgs. At approximately 2 feet bgs moist soil was encountered. Moisture content increased with depth. No debris was encountered in this trench.

Trench 4 – This trench was excavated to approximately 7 feet bgs. At approximately 4 feet bgs woody debris was encountered which increased with depth over the next two feet.

Trench 5 – This trench was excavated to approximately 6 feet bgs. Glass debris was present from 0 to 4 feet bgs. Moist soil was encountered at 5 feet bgs.

3. Investigation and Results

3.6 Global Positioning System

Trimble Pathfinder Processional Global Positioning System (GPS) survey units and Corvalis data loggers were used by the START personnel to approximate the sample location coordinates of the McCall – Old City Dump TBA samples. Recorded GPS coordinates by sample point are listed in Appendix E.

3.7 Investigation-Derived Waste

Investigation-derived waste (IDW) generated during the McCall – Old City Dump TBA sampling event included disposable sampling supplies and disposable personal protection equipment. All IDW was double-bagged in opaque plastic bags and disposed at the local municipal landfill.

Table 3-1 Soil Samples Summary of Criteria Values

Analyte	Range of Detected Concentrations	Frequency of Detection	Frequency of Exceedance of Cleanup Criteria	Criteria Value
Volatile Organic Compounds (µg/kg)				
1,4-Dioxane	R	--	--	44,000 ^a
2-Butanone	17 - 18	2/20	0/20	11,756 ^b
Acetone	18 J	1/20	0/20	17,405 ^b
Benzene	2.8 J - 6.4 J	4/20	0/20	18 ^b
Methylene chloride	6.4 - 28	7/20	3/20	17 ^b
Toluene	11 - 28	7/20	0/20	4,885 ^b
Semi-volatile Organic Compounds (ug/kg)				
Bis(2-ethylhexyl)phthalate	390 - 830	20/20	0/20	11,836 ^b
TAL Metals (mg/kg)				
Aluminum	6,210 JK - 19,900 JK	20/20	0/20	77,000 ^a
Arsenic	1.2 JL - 30.4 JL	20/20	20/20	0.39 ^{a,b}
Barium	64 - 799	20/20	0/20	896 ^b
Beryllium	0.61 - 1.1	17/20	0/20	1.6 ^b
Cadmium	0.63 - 10	12/20	7/20	1.4 ^b
Calcium	1,720 - 29,100	20/20	0/20	NA
Chromium	3.2 JK - 100 JK	20/20	0/20	2,135 ^b
Cobalt	5.4 - 20.3	17/20	0/20	23 ^a
Copper	9.7 - 573	20/20	0/20	921 ^b
Iron	12,500 - 227,000	20/20	2/20	55,000 ^a
Lead	4.5 - 5,490	20/20	14/20	50 ^b
Magnesium	1,390 - 4,090	20/20	0/20	NA
Manganese	220 - 1,250	20/20	19/20	223 ^b
Mercury ^c	0.11 JH - 4.4 JH	11/20	11/20	0.005 ^b
Nickel	5 - 79.7	18/20	1/20	59 ^b
Potassium	961 - 2,060	20/20	0/20	NA
Silver	1.7	1/20	1/20	0.19 ^b
Vanadium	22.5 - 47.7	20/20	0/20	390 ^a
Zinc	19.8 - 3,530	20/20	3/20	886 ^b
Pesticides/PCBs (ug/kg)				
4,4'-DDD	4.7 - 24	4/20	0/20	2,439 ^b
4,4'-DDE	4.6 - 31	13/20	0/20	1,722 ^b
4,4'-DDT	5.1 - 350	15/20	0/20	403 ^b
Aroclor-1254	64 - 140	4/20	0/20	740 ^b
Alpha Chlordane	4.6	1/20	0/20	1,527 ^b
Gamma Chlordane	3.8	1/20	0/20	1,527 ^b

^a = EPA Regional Screening Levels for Chemical Contaminants at Superfund Sites, September 12, 2008.

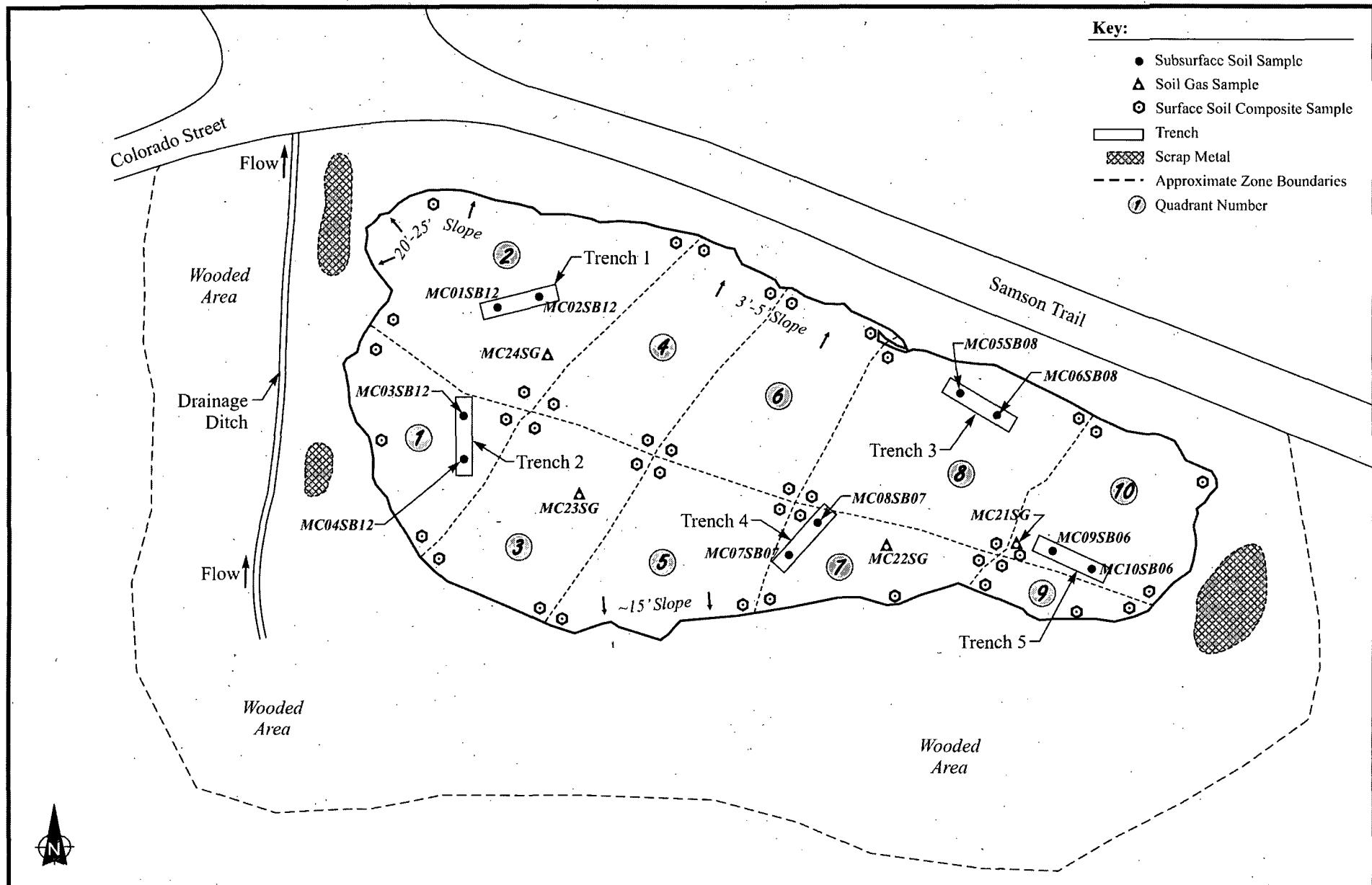
^b = Idaho Department of Environmental Quality, Initial Default Target Levels, July 2004.

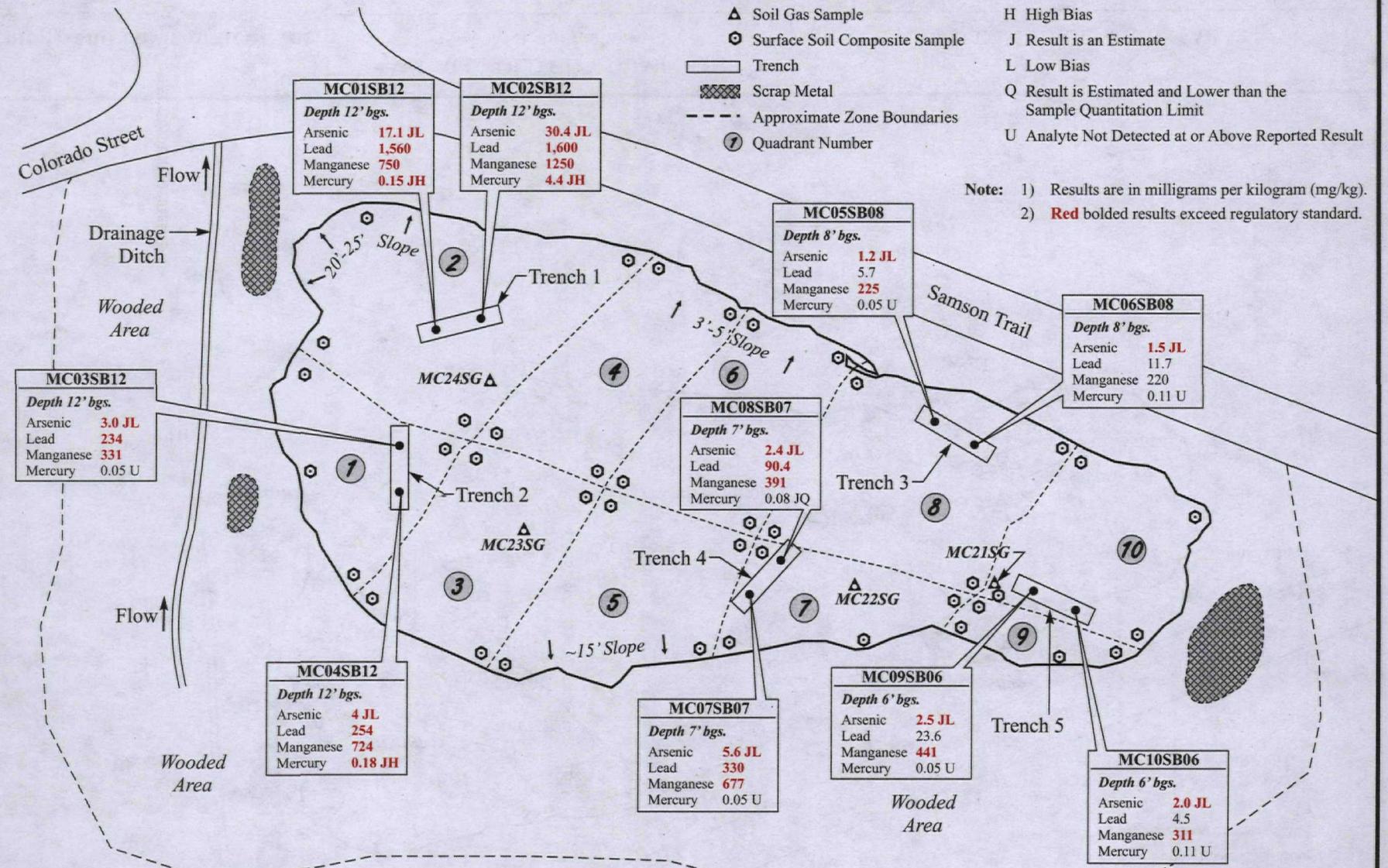
Key:

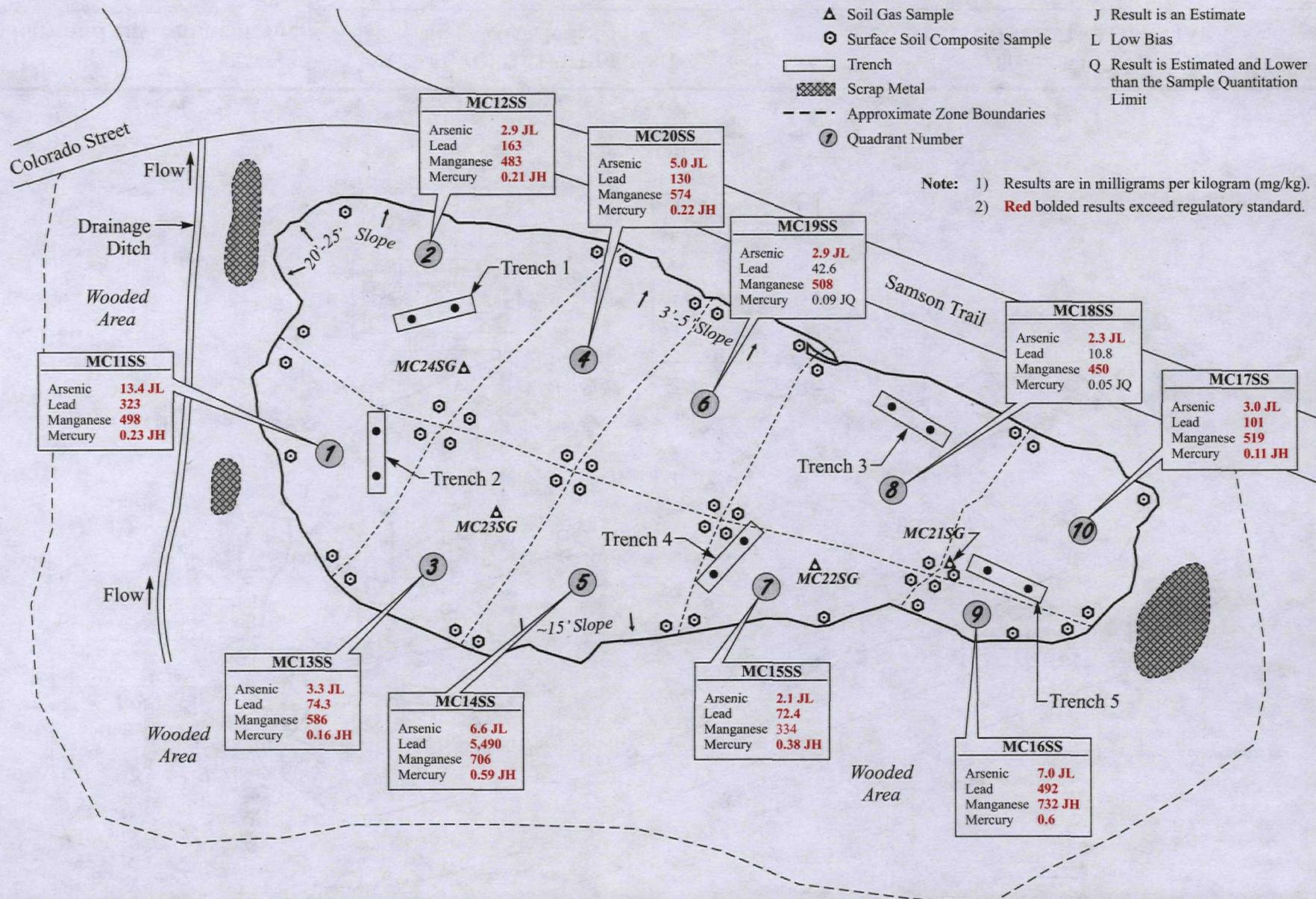
- H = High bias.
- J = The analyte was positively identified. The associated numerical result is an estimate.
- K = Unknown bias.
- L = Low bias.
- mg/kg = milligrams per kilogram.
- ug/kg = micrograms per kilogram.
- PCBs = polychlorinated biphenyls.
- R = The sample result is rejected. The data is unusable for any purpose.
- TAL = Target Analyte List.

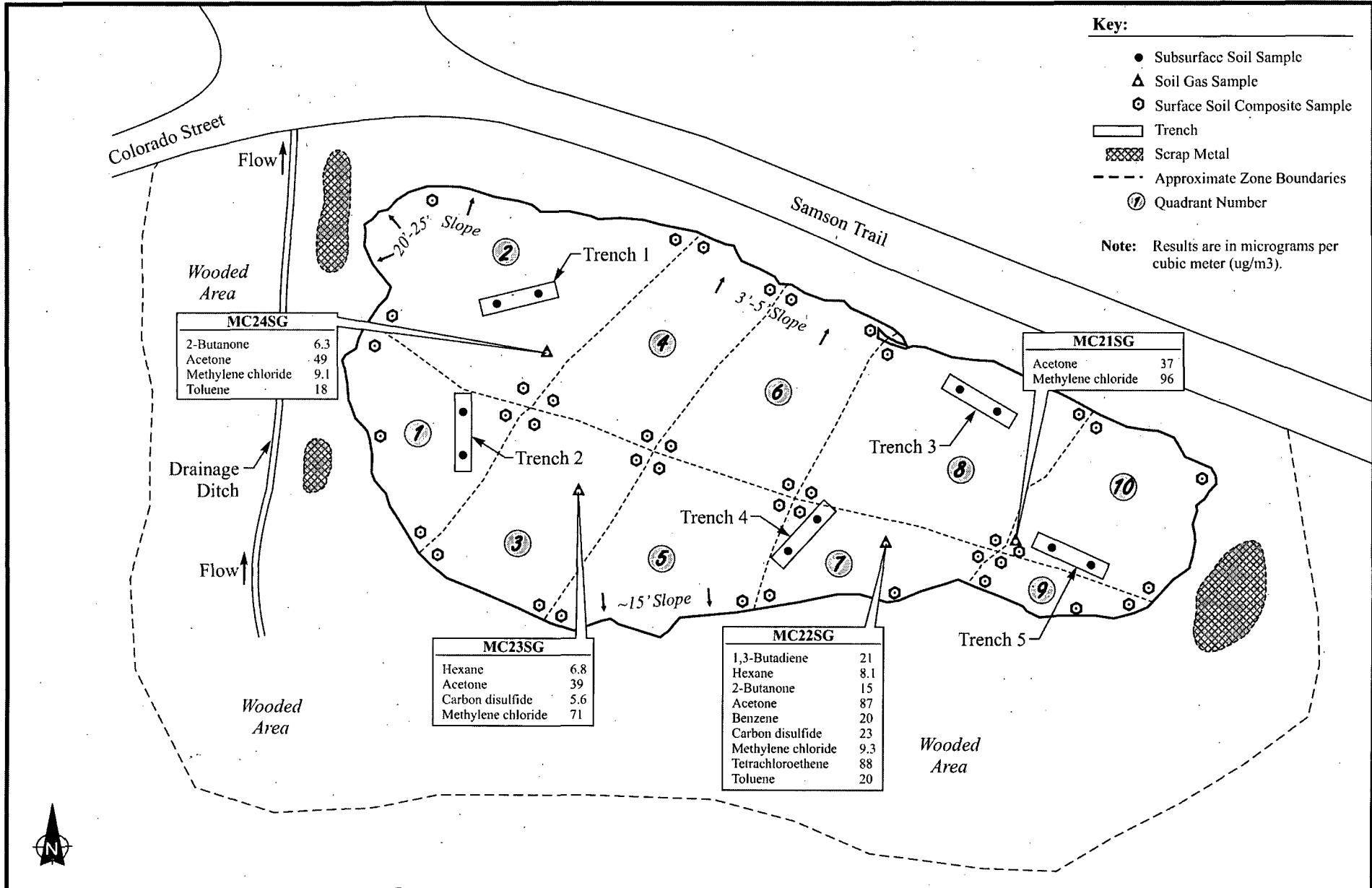
Notes:

- 1 = EPA RSL provided is for elemental mercury.
- 2 = Standard provided is for chlordane.









4

Cleanup Options and Cost Estimate

The preliminary investigation conducted during this TBA indicates that cleanup or remedial actions will be required at the McCall – Old City Dump prior to redevelopment. The following preliminary evaluation of site cleanup options is based on the analytical data gathered during the investigation for the TBA. Changes in site conditions would require a reevaluation of the following discussion. It is recommended that IDEQ be consulted prior to conducting any cleanup activities.

This TBA focused on VOC, SVOC, TAL Metals, and pesticide/PCBs compounds as the contaminants of concern in all locations. The decision to focus on these contaminants was based on information available and best professional judgment. Given this limitation, it could be possible that other contaminants could also be present at levels exceeding IDTLs or EPA RSLs.

The cost estimates included in this section were created by utilizing cost estimating software called Remedial Action Cost Engineering and Requirements (RACER®; EarthTech 2008). RACER® is a Windows-based cost estimating computer program that was originally developed for the United States Air Force in 1992 and has since grown to meet the needs of various federal agencies and departments, including United States Army Corp of Engineers and EPA. RACER® cost spreadsheets are provided as Appendix F.

The cleanup options and rationale are presented in Table 4-1. The estimated costs associated with each option are presented in Table 4-2. For the purposes of this preliminary cost estimate, the exact volume of material requiring cleanup cannot be determined. The quantities used have been estimated based on site observations and best engineering judgment. The work to be performed is intended to address the known environmental conditions resulting from past practices. Any additional costs incurred as a result of new or differing discoveries would be in addition to the projected estimated costs described in this section. Cleanup options and associated prices are listed below. These estimates include a 15 percent contingency to allow for unforeseen costs. These estimates do not, however, include additional study/investigation, design, long term monitoring, 5 year reviews, site closeout, etc.

Options 1 – Removal of Landfill Contents: Option 1 includes removal of landfill material with offsite disposal followed by backfilling (compacted) and

4. Cleanup Options and Cost Estimate

grading with clean import fill. This option removes all potentially hazardous material from the site. This option would likely provide for a favorable public perception of the site's reuse; as opposed to Option 2 below which leaves the contents of the landfill in-place.

Based on GPS measurements collected during the field event, the surface of the top of the landfill is estimated to be 1.5 acres. An average depth of landfill material of 9 feet is estimated based on landfill observations made during trenching where depths ranged from 6 to 12 feet. Using these estimates the volume of the landfill material is calculated to be approximately 21,780 cubic yards.

Per subsurface soil sample analytical data (TCLP analysis), it appears the excavated material can be disposed at a Resource Conservation and Recovery Act (RCRA) D landfill facility (non-hazardous). That is, the TCLP results for barium, cadmium, and lead are all below the toxicity characteristic regulatory levels of 100.0 milligrams per liter (mg/L; barium), 1.0 mg/L (cadmium), and 5.0 mg/L (lead) per 40 CFR, Part 261.24. Disposal would likely occur at Simco Road Landfill, owned and operated by Idaho Waste Systems. Per communication with the landfill owner, disposal costs (not including transportation) would be \$16.50 per ton (or approximately \$24.75 per cubic yard assuming 1.5 tons per cubic yard). Simco Road Landfill is located near Mountain Home, Idaho; approximately 140 miles from McCall.

It is further estimated that confirmation and waste characterization sampling will include 121 sample points/locations with 24 to 72 hour turnaround. The estimated expense to complete Option 1 is \$2,600,000 (Table 4-2).

Option 2 – Cap and Foundation: Option 2 includes capping the landfill (without landfill contents removal), followed by installation of a concrete slab foundation of increased thickness to aid in withstanding the stresses caused by differential settlement.

As typically constructed, a municipal waste landfill is slowly filled with waste over its active lifetime. "Clean soil" cover between waste layers may or may not have been used when the landfill was active. Generally, at the end of a landfill's active lifetime, closure is accomplished by placing a final soil cover with vegetation over the entire landfill. After a landfill is closed, it consists of essentially relatively uncompacted waste covered by a soil cover. The organic waste within the landfill, exacerbated by storm water infiltration, generates methane, a flammable gas; along with other VOCs. Underground fires within the waste can occur. Newer closure schemes usually include an impervious liner beneath the cover and methane collection/venting wells. If the volume of gas generated is significant, it may be economical to sell the gas to a utility. Absent that opportunity, it may be necessary to collect and flare the gas. If toxic chemicals were included in the waste, the methane may also contain these chemicals.

4. Cleanup Options and Cost Estimate

Constructing dwellings on such a landfill presents two significant problems:

- VOCs; including methane, may seep into the dwellings and concentrate; and
- The settlement of the landfill may cause structural problems.

Each of these is discussed below.

- *Gas Generation* - Lines of defense can be constructed to mitigate the VOCs/methane problem. If a VOCs/methane collection system combined with an impervious cap liner can be constructed, this will provide a preferential flow path for these contaminants away from the dwellings. The impervious liner must be designed to accommodate significant settlement. Secondly, as is done in areas that have the potential for radon gas intrusion, foundation slabs can be underlain by gravel (over the top of the impervious liner). Forced ventilation vents would extend from the gravel foundation layer, usually through the dwelling, to the atmosphere. Thirdly, methane detector alarms can be placed at critical areas of the dwelling.
- *Landfill Settlement* - Settlement of the foundations, and especially differential settlement, can cause structural problems. Possible resolutions are:
 1. Excavate the waste down to natural soil and construct basement walls down to this level.
 2. Construct pilings within the waste and into the natural soil to support the dwelling.
 3. Construct a foundation slab of sufficient thickness to withstand the stresses caused by differential settlement.
 4. Surcharge the landfill with temporary fill to force settlement before the dwellings are constructed.

Resolution 1 is only viable if the depth of the waste is shallow. Even then, the impervious cap liner must extend beneath and up the walls of the basement to prevent methane leaking in. Resolution 2 is viable for all types of landfills but the foundation slab must be of sufficient strength to transmit its load to the pilings. Furthermore, the design of the development must allow for the dwelling footprint to remain at a constant elevation while the surrounding ground settles. Resolution 3 is viable if the dwelling footprint does not extend very far in any horizontal direction. Even then, there may be non-structural problems, including perception of habitability problems, if a dwelling tilts significantly. Resolution 4 can only be practical in terms of the time required to achieve settlement if the waste is not too deep.

For the purposes of this cost estimate, Resolution 3, which accommodates settlement, is chosen as cleanup Option 2. VOCs/methane mitigation measures including a gas extraction system are also chosen to be included in the cost estimate. In spite of the measures this option includes to mitigate potential environmental hazards, a negative public perception of the site may evolve since affordable housing units will be built on top of the landfill contents.

4. Cleanup Options and Cost Estimate

For cost estimating of this option, the cap is estimated to have a 2-acre footprint to extend beyond the limits of the landfill. The cap is assumed to be a RCRA C-type with composite barrier (consisting of 40 mil HDPE geomembrane and a geosynthetic clay liner); drainage layer; and a landfill gas control system. In keeping with possible futures uses planned by the City of McCall for the site, it is assumed that two apartment buildings will be constructed. It is estimated that each apartment building will have a 8,000 square foot footprint for a total of 16,000 square feet of building foundation. It is assumed the foundation will be a 2 foot thick structural slab on grade underlain with 1 foot of crushed gravel. The estimated expense to complete Option 2 is \$1,700,000 (Table 4-2).

Table 4-2 Preliminary Cost Estimate for Cleanup Action

Remediation Options	Description	Estimated Cost
Option 1	Removal of Landfill Contents	
	Excavation (includes excavation, analytical testing, and backfilling)	\$665,609
	Decontamination facilities	\$4,608
	Transportation and disposal (at Simco Road Landfill)	\$1,349,811
	Professional labor management	\$52,549
	Subtotal	\$2,072,577
	Contingency ^a (+15%)	\$518,144
	Total	\$2,600,000
Option 2	Cap and Foundation	
	Cap (RCRA-C type including a composite barrier; a drainage layer; and a landfill gas control system)	\$712,332
	Foundation (12 inches of crushed gravel overlain by a 2 foot concrete slab)	\$499,405
	Professional labor management	\$74,256
	Subtotal	\$1,285,993
	Contingency ^a (+15%)	\$321,498
	Total	\$1,700,00

Notes:

1. Costs estimates developed using Remedial Action Cost Engineering and Requirements (RACER®), 2008, Software System for Windows
2. Estimates do not include additional study/investigation (e.g., RI/FS), design, long term monitoring, 5 year reviews, site closeout, etc.
3. Costs includes direct costs plus a location modifier of 0.978 (Idaho State Average) and overhead and profit (25% field office overhead, 10% subcontractor profit, and 15% prime profit).

^aThe 15% contingency allows for unforeseen costs.

4. Cleanup Options and Cost Estimate

Table 4-1 Cleanup Estimate Option and Rationale

Cleanup Action	Rationale
Option 1- Removal of Landfill Contents	Excavate and dispose of landfill contents offsite; backfill, compact, and re-grade site to prepare for housing construction. This option may eliminate the potential for negative public perceptions of the site.
Option 2- Cap and Foundation	Leave landfill contents in place and prepare land for housing construction through installation of a cap, landfill gas control system, and concrete foundation. This option, while less costly than Option 1, may create negative public perceptions of the site.

5

Conclusions

The site is located on approximately 4.35 acres in McCall, Idaho that previously was operated by the City of McCall as a landfill. Operation of the landfill began in 1930 and ended in 1958 when the city opened a new landfill southwest of the site near the airport. Disposal at the landfill was limited to household waste. Hazardous substances are not known to have been disposed on-site. The landfill rises above grade over the surrounding topography. The surface of the top of the landfill was determined during this TBA to be approximately 1.5 acres.

The City of McCall intends to redevelop the land as a site for affordable housing units.

Environmental concerns at the site are those common to landfills and include potentially contaminated soil and groundwater; methane gas generation; and settlement. The TBA field event occurred from July 29, 2008 to July 31, 2008. In order to assess the possible presence of contamination in this landfill, 10 subsurface soil samples were collected from five trenches, 10 four-part composite surface soil samples were collected from ten quadrants established across the surface of the landfill, four soil gas samples were collected, and material from trenches was assessed for archeological/cultural significance. All soil samples were analyzed for VOCs, SVOCs, TAL metals, and pesticides/PCBs. Soil gas samples were analyzed for VOCs. Groundwater was intended to be sampled; however, due to drilling refusal, groundwater was not reached and no groundwater samples were collected.

Sample results indicate that presence of metals above IDTLs in every soil sample collected. Arsenic, lead, and manganese were especially prevalent above IDTLs in both surface and subsurface soil samples; with mercury also being present above its IDTL in a majority of surface soil samples. With the exception of methylene chloride in three soil samples, VOCs, SVOCs, and pesticides/PCBs were not detected at concentrations that exceeded IDTLs or EPA RSLs. Soil gas samples indicate the presence of several VOCs, including acetone and methylene chloride in all soil gas samples.

Two cleanup options were explored for the McCall – Old City Dump to allow for construction of housing units at the site. Option 1 was for removal of the landfill contents followed by backfilling with clean fill material; then compacting and grading this material. This option is estimated to cost \$2,600,000. Option 2 was for installing a RCRA C-type cap over the landfill's contents followed by con-

5. Conclusions

struction of thicker than typical concrete slabs for the apartment units to account for differential settling. This option is estimated to cost \$1,700,000.

6

References

- Ecology and Environment, Inc. (E & E), June 2008, *Sampling and Quality Assurance Plan, McCall – Old City Dump Site, McCall, Idaho, Targeted Brownfields Assessment.*
- _____, 2007, Site Visit Field Logbook, McCall – Old City Dump Site, McCall, Idaho.
- EarthTech, Inc., 2008, Remedial Action Cost Engineering and Requirements (RACER) software.
- Frontier Historical Consultants, Inc., (Frontier), August 15, 2008, *Cultural Resource Monitoring Report for the Former McCall Colorado Street Dump.*
- Idaho Department of Environmental Quality, 2004, Initial Default Target Levels, July 2004.
- United States Environmental Protection Agency (EPA), September 12, 2008, Regional Screening Levels for Chemical Contaminants at Superfund Sites.
- _____, October 2000, Brownfield Economic Redevelopment Fact Sheet, EPA 500-F-00-241.
- URS Corporation, Inc. (URS), May 15, 2007, *Draft Report, Phase I Environmental Site Assessment, Former McCall Landfill Site, Colorado Street and North Samsom Trail, McCall, Idaho.*

A

Photographic Documentation

McCALL - OLD CITY DUMP SITE
McCall, Idaho

TDD Number: 07-03-0007
Photographed by: Jeff Fetter



Photo 1 Soil pile from Trench 1.

Date: 7/30/08

Time: 08:48

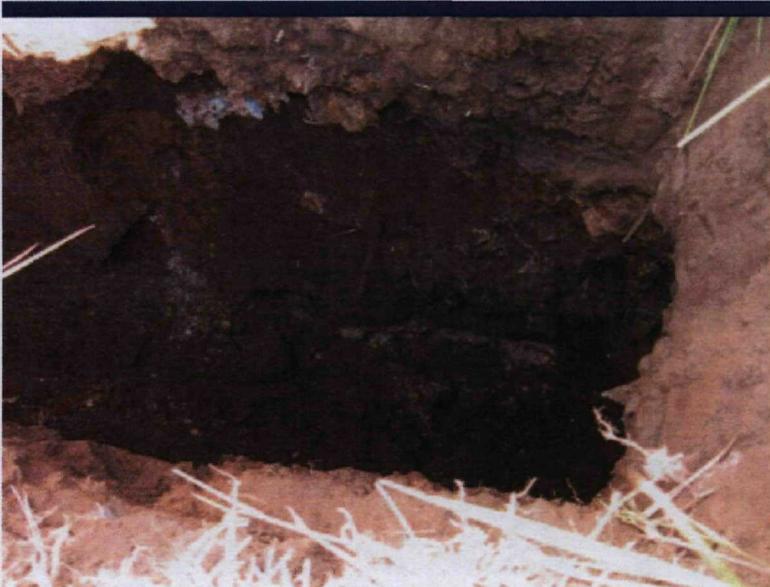


Photo 3 Soil color change in Trench 1 at 6 feet below ground surface.

Date: 7/30/08

Time: 09:10



Photo 2 Soil pile from Trench 1.

Date: 7/30/08

Time: 08:48



Photo 4 Soil pile from Trench 2.

Date: 7/30/08

Time: 10:38

McCALL - OLD CITY DUMP SITE

McCall, Idaho

TDD Number: 07-03-0007

Photographed by: Jeff Fettters



Photo 5 Soil pile from Trench 2.

Date: 7/30/08

Time: 10:38

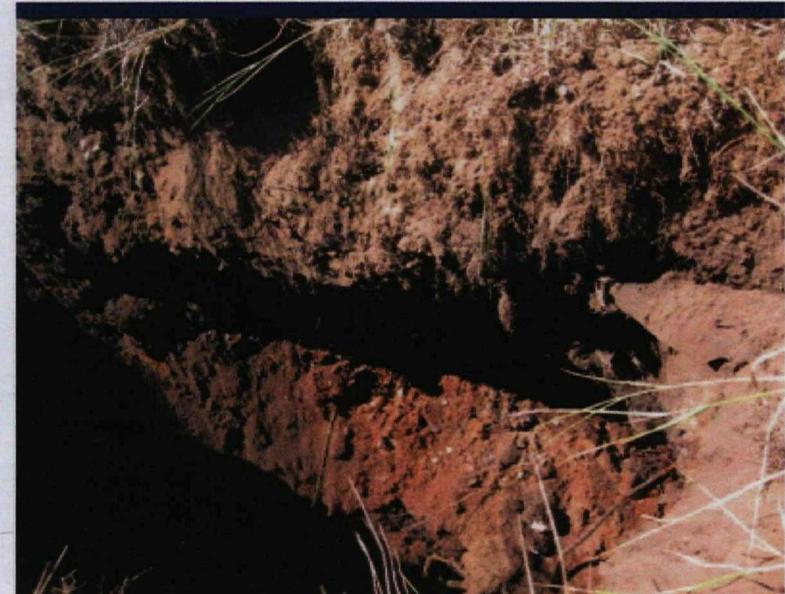


Photo 6 Soil within Trench 2.

Date: 7/30/08

Time: 10:55



Photo 7 Soil within Trench 2.

Date: 7/30/08

Time: 10:55

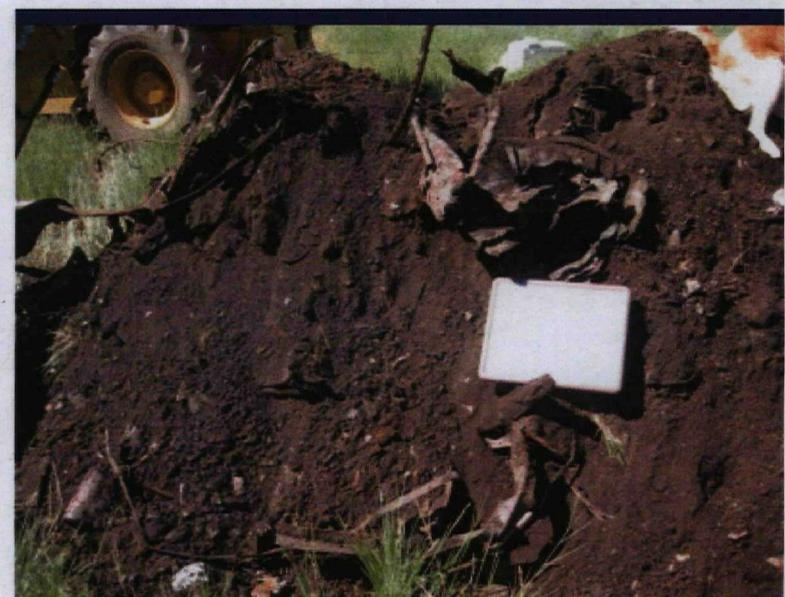


Photo 8 Soil pile from Trench 2.

Date: 7/30/08

Time: 11:31

MC CALL - OLD CITY DUMP SITE
McCall, Idaho

TDD Number: 07-03-0007

Photographed by: Jeff Fettters



Photo 9 Soil pile from Trench 2.

Date: 7/30/08

Time: 11:31



Photo 11 Soil within Trench 2.

Date: 7/30/08

Time: 11:31



Photo 10 Soil pile from Trench 2.

Date: 7/30/08

Time: 11:31



Photo 12 Soil pile from Trench 3.

Date: 7/30/08

Time: 13:43

TDD Number: 07-03-0007
Photographed by: Jeff Fetter



Photo 14 Soil within Trench 3.

Date: 7/30/08 Time: 13:43



Photo 16 Soil pile from Trench 4.

Date: 7/30/08 Time: 15:01

MCALL - OLD CITY DUMP SITE
MCALL, Idaho
TDD Number: 07-03-0007



Photo 13 Soil pile from Trench 3.

Date: 7/30/08 Time: 13:43



Photo 15 Soil within Trench 3.

Date: 7/30/08 Time: 13:43

McCALL - OLD CITY DUMP SITE
McCall, Idaho

TDD Number: 07-03-0007
Photographed by: Jeff Fetter



Photo 17 Soil pile from Trench 4.

Date: 7/30/08

Time: 15:01



Photo 18 Soil pile from Trench 4.

Date: 7/30/08

Time: 15:01



Photo 19 Soil pile from Trench 5.

Date: 7/31/08

Time: 09:16



Photo 20 Soil pile from Trench 5.

Date: 7/31/08

Time: 09:16

MC CALL - OLD CITY DUMP SITE

McCall, Idaho

TDD Number: 07-03-0007

Photographed by: Jeff Fettters

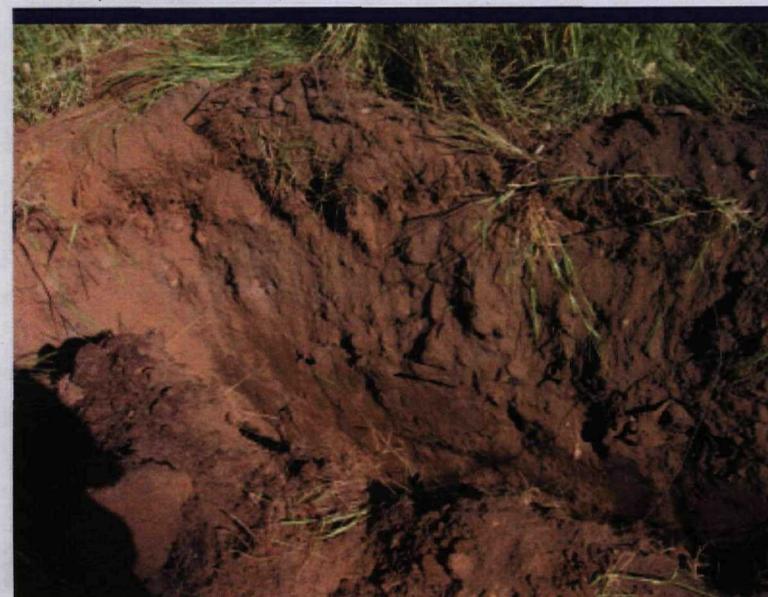


Photo 21 Soil within Trench 5.

Date: 7/31/08

Time: 09:58



Photo 22 Soil within Trench 5.

Date: 7/31/08

Time: 09:58



Photo 23 Soil within Trench 5.

Date: 7/31/08

Time: 09:58



Photo 24 Soil within Trench 5.

Date: 7/31/08

Time: 09:58

McCALL - OLD CITY DUMP SITE

McCall, Idaho

TDD Number: 07-03-0007

Photographed by: Jeff Fettters



Photo 25 Soil within Trench 5.

Date: 7/31/08

Time: 09:58

McCALL - OLD CITY DUMP SITE
McCall, Idaho

TDD Number: 07-03-0007
Photographed by: Linda Costello

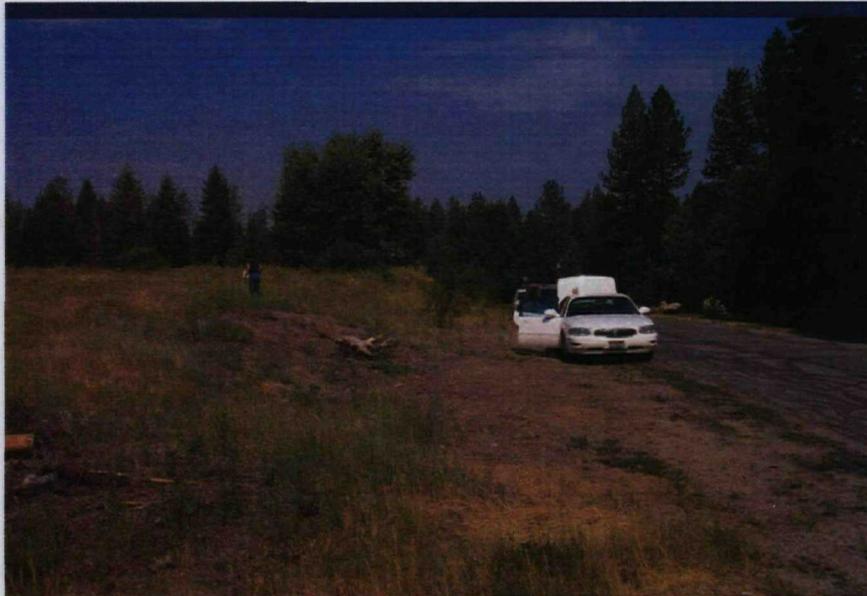


Photo 1 View of northern portion of landfill showing slope of landfill with an elevation gain of approximately 10 feet.

Direction: Northwest Date: 7/26/2007 Time: 11:05



Photo 2 Surface of landfill. Vegetated primarily with grass.

Direction: West Date: 7/26/2007 Time: 11:10



Photo 3 Tires and wood planks on top of landfill. One plank is being used for a bike ramp.

Direction: South Date: 7/26/2007 Time: 11:12



Photo 4 South edge of landfill depicting slope of approximately 15 feet.

Direction: Northwest Date: 7/26/2007 Time: 11:36

MC CALL - OLD CITY DUMP SITE
McCall, Idaho

TDD Number: 07-03-0007
Photographed by: Linda Costello

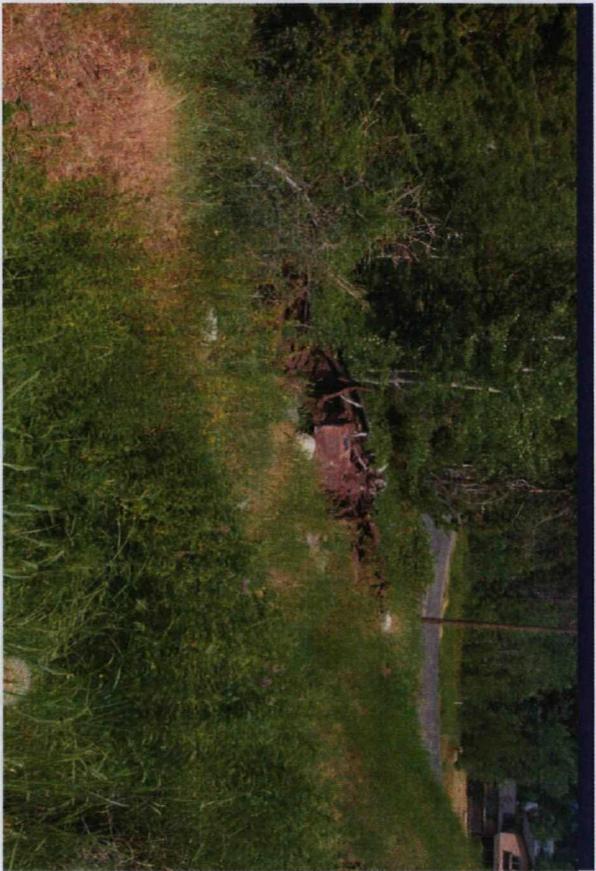


Photo 7 Large pile of metal debris on southwest edge of landfill near Colorado Street.

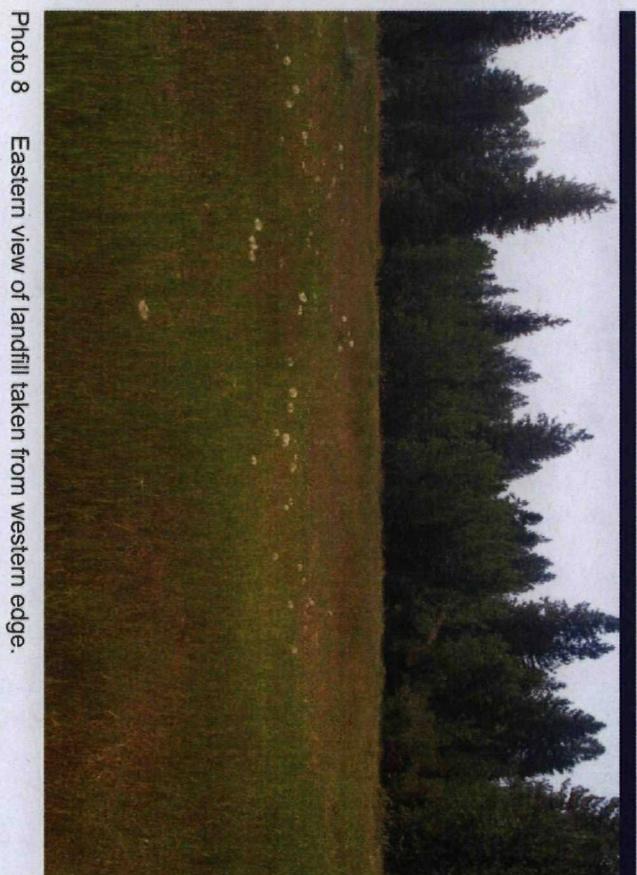


Photo 8 Eastern view of landfill taken from western edge.

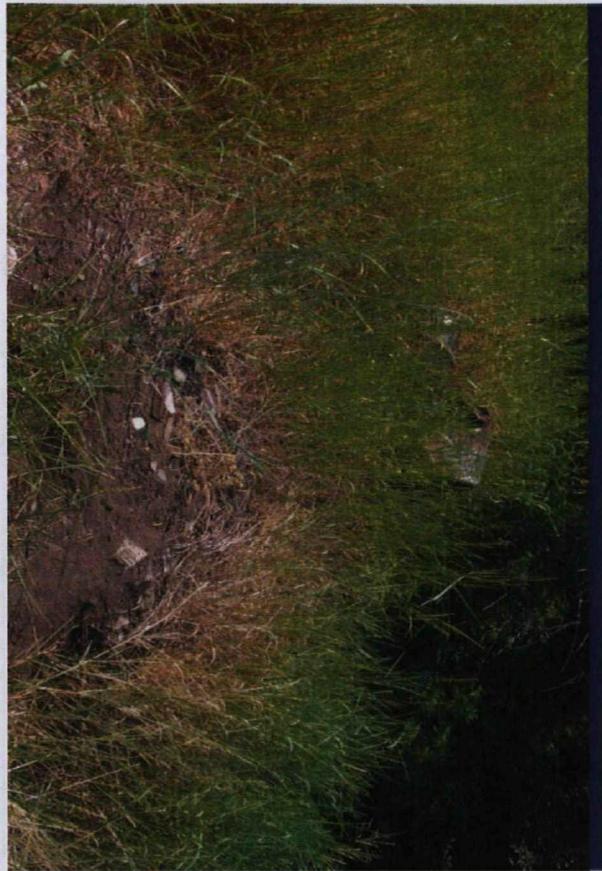


Photo 5 Glass and metal debris near south edge of landfill at slope.

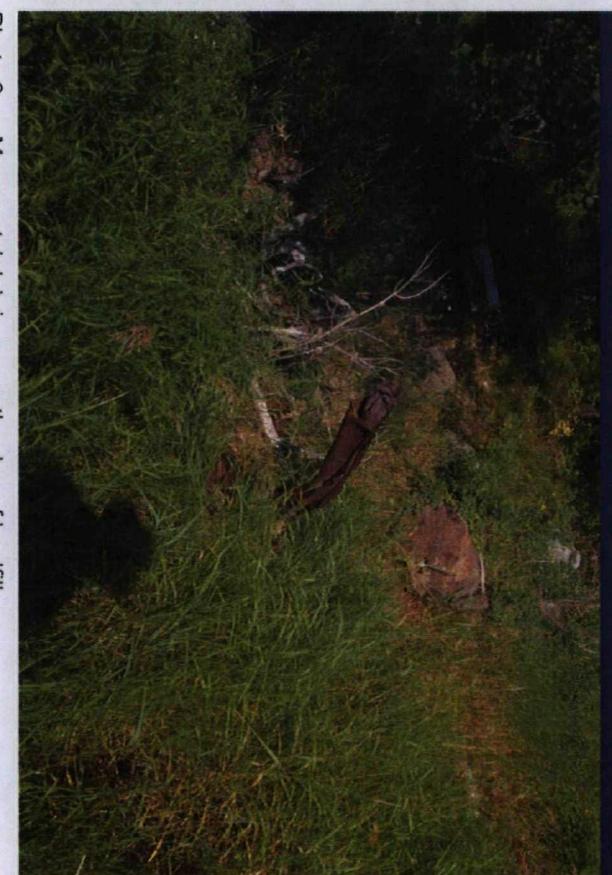


Photo 6 More metal debris on south edge of landfill.

Direction: West Date: 7/26/2007 Time: 11:41

Direction: East Date: 7/26/2007 Time: 11:45

McCALL - OLD CITY DUMP SITE
McCall, Idaho

TDD Number: 07-03-0007
Photographed by: Linda Costello

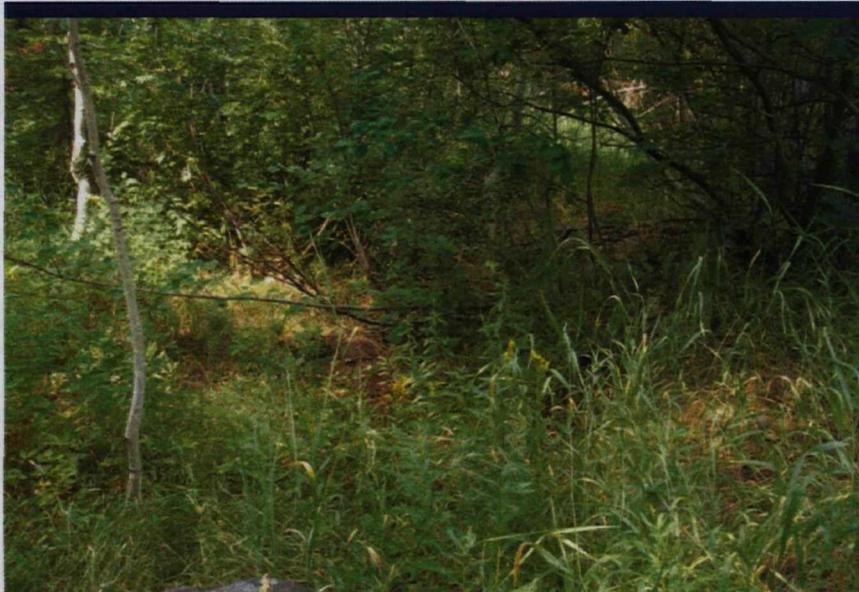


Photo 9 Eastern edge of landfill showing 1 to 2 foot drop in elevation along sloped edge.

Direction: West

Date: 7/26/2007

Time: 11:55



Photo 10 Western edge of landfill showing height. Taken from across the street to the west.

Direction: East

Date: 7/26/2007

Time: 12:03

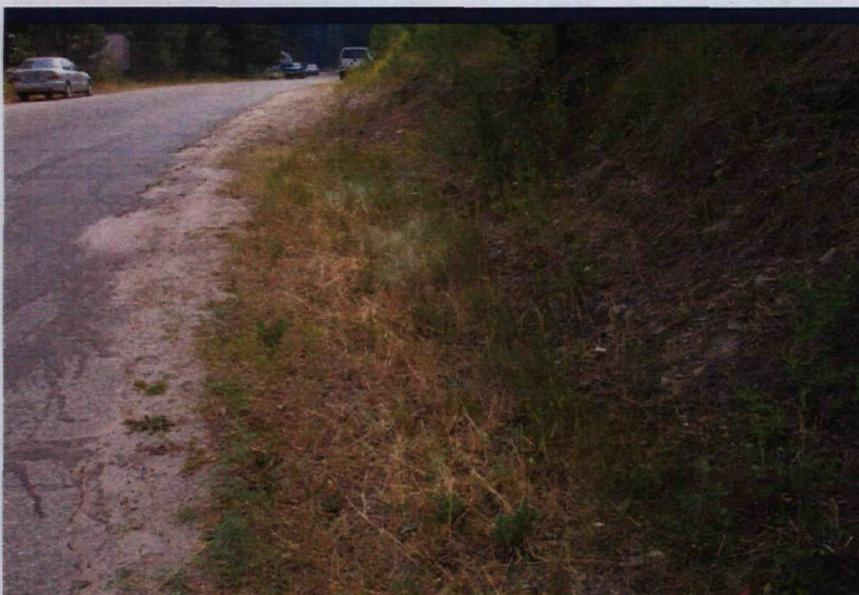


Photo 11 Northern edge of landfill.

Direction: East

Date: 7/26/2007

Time: 12:05

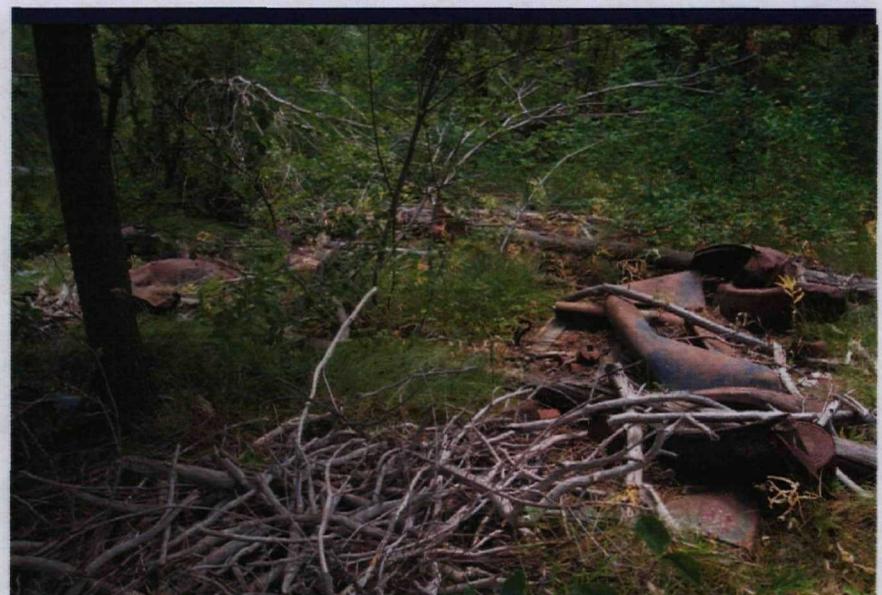


Photo 12 Large pile of automobile debris and scrap metal on east end of the site in the woods.

Direction: Northeast

Date: 7/26/2007

Time: 12:08

B

Sample Plan Alteration Form

Sample Plan Alteration Form

Project Name and TDD Number: McCall – Old City Dump Site, Targeted Brownfields Assessment – TDD 07-03-0007

Material to be Sampled: Groundwater from Geoprobe™ borings. Soil gas samples for methane analysis.

Measurement Parameter: Groundwater and soil gas.

Standard Procedure for Field Collection and Laboratory Analysis (cite reference): Standard Geoprobe™ sampling for groundwater according to SQAP *Groundwater Sampling SOP*. Laboratory analysis for volatile organic compounds, semi-volatile organic compounds, pesticides/polychlorinated biphenyls, and target analyte list metals.

Reason for Change in Field Procedure or Analysis Variation: Groundwater was not encountered in borings which were drilled to refusal. After conferring with TM, attempts to collect groundwater samples were discontinued. Methane analysis was inadvertently excluded from chain-of-custody forms, hence, this analysis was not performed.

Variation from Field or Analytical Procedure: No groundwater samples were collected. Soil gas methane analysis was not conducted.

Special Equipment, Materials, or Personnel Required: None.

Initiator=s Name: Linda Costello _____ Date: _____
8/25/08 _____

Project Manager: Linda Costello _____ Date: 8/25/08 _____

QA Officer: Mark Woodke _____ Date: 8/25/08 _____

C

Sample Collection and Analytical Summary Tables

Table C-1
Sample Summary

Area	Station ID	RTN #	CLP #	Date	Time	Depth (feet bgs)	Description
Trench 1	MC01SB12	08304201	J94S6	7/30/08	1005	12	
	MC02SB12	08304202	J94S7	7/30/08	1000	12	
Trench 2	MC03SB12	08304203	J94S8	7/30/08	1145	12	
	MC04SB12	08304204	J94S9	7/30/08	1150	12	
Trench 3	MC05SB08	08304208	J94T3	7/30/08	1415	8	MS/MSD
	MC06SB08	08304206	J94T1	7/30/08	1355	8	
Trench 4	MC07SB07	08304212	J94T7	7/30/08	1535	7	
	MC08SB07	08304211	J94T6	7/30/08	1525	7	
Trench 5	MC09SB06	08304220	J94W5	7/31/08	1005	6	
	MC10SB06	08304219	J94W4	7/31/08	0945	6	
Quadrant 1	MC11SS	08304205	J94T0	7/30/08	1349	0.5	
Quadrant 2	MC12SS	08304207	J94T2	7/30/08	1403	0.5	
Quadrant 3	MC13SS	08304209	J94T4	7/30/08	1425	0.5	
Quadrant 4	MC20SS	08304218	J94W3	7/31/08	0920	0.5	
Quadrant 5	MC14SS	08304210	J94T5	7/30/08	1445	0.5	
Quadrant 6	MC19SS	08304217	J94W2	7/31/08	0855	0.5	
Quadrant 7	MC15SS	08304213	J94T8	7/31/08	0750	0.5	
Quadrant 8	MC18SS	08304216	J94W1	7/31/08	0840	0.5	
Quadrant 9	MC16SS	08304214	J94T9	7/31/08	0800	0.5	
Quadrant 10	MC17SS	08304215	J94W0	7/31/08	0830	0.5	
Perimeter	MC21SG	08304221	NA	7/31/08	1318	NA	
Perimeter	MC22SG	08304222	NA	7/31/08	1327	NA	
Perimeter	MC23SG	08304223	NA	7/31/08	1333	NA	
Perimeter	MC24SG	08304224	NA	7/31/08	1328	NA	
Trip Blank	TB01WT	08304200	NA	7/29/08	0945	NA	Trip Blank.

Key:

- bgs = below ground surface.
- CLP = contract laboratory program.
- ID = identification.
- MS/MSD = matrix spike/matrix spike duplicate.
- NA = not applicable.
- QA/QC = quality assurance/quality control.
- RTN = regional tracking number.

Table C-2
Analytical Summary

Area	Station ID	VOCs	SVOCs	Pesticides/PCBs	TAL Metals	TCLP VOCs	TCLP SVOCs	TCLP Pesticides	TCLP Metals	Compaction	Grain size, Sieve, Atterberg Limits, Water Content
Trench 1	MC01SB12	X	X	X	X	X	X	X	X		
	MC02SB12	X	X	X	X						
Trench 2	MC03SB12	X	X	X	X	X	X	X	X		
	MC04SB12	X	X	X	X						
Trench 3	MC05SB08	X	X	X	X	X	X	X	X		
	MC06SB08	X	X	X	X						
Trench 4	MC07SB07	X	X	X	X	X	X	X	X		
	MC08SB07	X	X	X	X						
Trench 5	MC09SB06	X	X	X	X	X	X	X	X		
	MC10SB06	X	X	X	X						
Quadrant 1	MC11SS	X	X	X	X						
Quadrant 2	MC12SS	X	X	X	X						X
Quadrant 3	MC13SS	X	X	X	X						
Quadrant 4	MC20SS	X	X	X	X						
Quadrant 5	MC14SS	X	X	X	X						
Quadrant 6	MC19SS	X	X	X	X						X
Quadrant 7	MC15SS	X	X	X	X						
Quadrant 8	MC18SS	X	X	X	X						
Quadrant 9	MC16SS	X	X	X	X						
Quadrant 10	MC17SS	X	X	X	X						
Perimeter	MC21SG	X									
Perimeter	MC22SG	X									
Perimeter	MC23SG	X									
Perimeter	MC24SG	X									
Trip Blank	TB01WT	X									

Key:

- ID = Identification.
- PCB = polychlorinated biphenyls.
- SVOC = semivolatile organic compound.
- TAL = target analyte list.
- TCLP = Toxicity Characteristic Leaching Procedure.
- VOC = volatile organic compound.

Table C-3 Subsurface Soil Sample Results Analytical Data Summary

ANALYTE	ID/IDTL	EPA RSL Residential	Trench 1		Trench 2		Trench 3		Trench 4		Trench 5	
			MC01SB12	MC02SB12	MC03SB12	MC04SB12	MC05SB08	MC06SB08	MC07SB07	MC08SB07	MC09SB06	MC10SB06
VOCs (ug/kg)												
1, 4-Dioxane	NA	44000	R	R	R	R	R	R	R	R	R	R
Acetone	17405	61000000	16 U	17 JQ	13 UJ	7 JQ	14 UJ	13 UJ	15 U	18 J	17 U	15 U
Methylene chloride	17	11000	7.9 U	12 U	6.4 U	7.5 U	7.0 U	6.3 U	7.6 U	6.4	19	7.6 U
SVOCs (ug/kg)												
Bis(2-ethylhexyl)phthalate	11836	35000	710	830	550	760	610	570	630	700	560	660
TAL Metals (mg/kg)												
Aluminum	NA	77000	16300 JK	8130 JK	14600 JK	19900 JK	6210 JK	9190 JK	16100 JK	8340 JK	15600 JK	15800 JK
Arsenic	0.39	0.39	17.1 JL	30.4 JL	3.0 JL	4 JL	1.2 JL	1.5 JL	5.6 JL	2.4 JL	2.5 JL	2 JL
Barium	896	15000	799	444	170	403	64	85.6	316	124	183	169
Beryllium	1.6	160	0.52 JQ	0.22 JQ	0.71	1.1	0.5 JQ	0.68	0.87	0.64	0.87	0.8
Cadmium	1.4	70	6	10	0.63	2.2	0.53 U	0.54 U	2.6	0.27 JQ	0.19 JQ	0.56 U
Calcium	NA	NA	15200	25000	5190	5940	1900	1720	4130	2910	3210	1930
Chromium	2135	280	37 JK	100 JK	7.6 JK	12.6 JK	3.2 JK	3.8 JK	35.5 JK	4.5	6.5 JK	6 JK
Cobalt	NA	23	13.5	20.3	5.4 JQ	7.9	5.4	4.3 JQ	8.7	6.3	5.7 JQ	5.9
Copper	921	3100	299	305	502	73	10.9	9.7	573	30.6	17.4	9.9
Iron	NA	55000	73000	227000	15400	24000	14000	12500	39100	16400	15400	16300
Lead	50	400	1560	1600	234	254	5.7	11.7	330	90.4	23.6	4.5
Manganesium	NA	NA	1990	1770	2050	2390	1610	1450	2040	1650	2100	2050
Manganese	223	NA	750	1250	331	724	225	220	677	391	441	311
Mercury ¹	0.005	6.7	0.15 JH	4.4 JH	0.05 U	0.18 JH	0.05 U	0.11 U	0.05 U	0.08 JQ	0.05 U	0.11 U
Nickel	59	1600	48.6	79.7	10.1	10.4	3.2 JQ	3.9 JQ	36.9	5.6	6.8	5.9
Potassium	NA	NA	1950	1790	1680	2060	961	1090	1910	1020	1580	1820
Silver	0.19	390	1.2 U	1.7	1.2 U	1.3 U	1.1 U	1.1 U	1.2 U	1.1 U	1.2 U	1.1 U
Vanadium	NA	390	22.6	22.5	26.3	41.7	23.6	30.6	38	30.6	31.4	40.1
Zinc	886	23000	1620	3530	255	555	19.8	30.5	682	147	75.9	29
Pesticides/PCBs (ug/kg)												
4,4'-DDD	2439	2000	1.9 JQ	4.5 U	24	1.1 JQ	3.6 U	0.04 JQ	5.6	3.7 U	3.8 U	5.2 U
4,4'-DDE	1722	1400	4.6	8.7	15	4.2 U	3.6 U	2.4 JQ	21	3.2 JQ	0.6 JQ	5.2 U
4,4'-DDT	403	1700	15	23	350	13	0.25 JQ	3.3 JQ	27	4.8	2.1 JQ	5.2 U
Alpha-chlordane ²	1527	1600	4.6	2.3 U	2 U	2.2 U	1.9 U	1.9 U	2 U	1.9 U	2 U	2.7 U
Gamma-chlordane ²	1527	1600	3.8	0.68 JQ	2 U	2.2 U	1.9 U	1.9 U	2 U	1.9 U	2 U	2.7 U
TCLP Metals (ug/L)												
Barium	NA	NA	1000 J		1300 J		530 J		1200 J		1200 J	
Cadmium	NA	NA	53.9		8.9		5.0 U		5.0 U		5.0 U	
Lead	NA	NA	744		127		30 U		30 U		30 U	
TCLP Pesticides (ug/kg)												
Chlordane (Tech)	NA	NA	10 J		57 U		51 U		55 U		59 U	
cis-Chlordane (alpha-Chlordane)	NA	NA	3 J		6 U		5 U		5 U		6 U	
Gamma-chlordane	NA	NA	1 J		6 U		5 U		5 U		6 U	
Heptachlor epoxide	NA	NA	1 J		6 U		5 U		5 U		6 U	
P,P'-DDD	NA	NA	2 J		7		5 U		9		6 U	
P,P'-DDE	NA	NA	7		8		2 J		29		1 J	
P,P'-DDT	NA	NA	11		35		2 J		49		4 J	
Geotechnical Analysis												
Maximum Density (lbs/ft ³)	NA	NA							145.3		108.6	

Key:

H
ID IDTL - Residential

= High bias.
= Idaho Department of Environmental Quality, Initial Default Target Levels, July 2004.
= The analyte was positively identified. The associated numerical result is an estimate.
= Unknown bias.
= Low bias.

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Cleanup Office

lbs/ft²

mg/kg

ug/kg

ug/L

NA

PCBs

Q

R

SVOCs

TAL

TCLP

U

EPA RSL

VOCs

= pounds per square foot.

= milligrams per kilogram.

= micrograms per kilogram.

= micrograms per liter.

= not applicable.

= polychlorinated biphenyls.

= The sample result is estimated and is lower than the sample quantitation limit.

= The sample result is rejected. The data is unusable for any purpose.

= semivolatile organic compounds.

= Target Analyte List.

= Toxicity Characteristic Leachate Procedure.

= The analyte was not detected at or above the reported result.

= EPA Regional Screening Levels for Chemical Contaminants at Superfund Sites, September 12, 2008.

= volatile organic compounds.

Notes:

1

2

= EPA RSL provided is for elemental mercury.

= Standard provided is for chlordane.

Table C-4 Surface Soil Sample Results Analytical Data Summary

ANALYTE	ID	IDTL	EPA RSL	Residential	MC11SS Quadrant 1	MC12SS Quadrant 2	MC13SS Quadrant 3	MC14SS Quadrant 5	MC15SS Quadrant 7	MC16SS Quadrant 9	MC17SS Quadrant 10	MC18SS Quadrant 8	MC19SS Quadrant 6	MC20SS Quadrant 4
VOCs (ug/kg)														
1, 4-Dioxane	NA	44000	R	R	R	R	R	R	R	R	R	R	R	R
2-Butanone	11756	28000000	16 U	28 U	19 U	21 U	18 UJ	21 UJ	24 UJ	27 UJ	17	18		
Benzene	18	1100	8 U	3.2 JQ	4.9 JQ	4.1 JQ	6.4 J	5.3 J	3.1 J	2.8 J	2.1 JQ	2.8 JQ		
Methylene chloride	17	11000	8 U	14	9.3	28	9.2	23	12 U	13 U	9.8 U	9 U		
Toluene	4885	5000000	8 U	17	26	23	28	15	12	13 U	11	9 U		
SVOCs (ug/kg)														
Bis(2-ethylhexyl)phthalate	11836	35000	500	540	540	550	540	610	670	510	390	460		
TAL Metals (mg/kg)														
Aluminum	NA	77000	12000 JK	14400 JK	18000 JK	13200 JK	9440 JK	14200 JK	13600 JK	11800 JK	12000 JK	15100 JK		
Arsenic	0.39	0.39	13.4 JL	2.9 JL	3.3 JL	6.6 JL	2.1 JL	7 JL	3 JL	2.3 JL	2.9 JL	5 JL		
Barium	896	15000	336	214	230	341	284	369	215	135	150	223		
Beryllium	1.6	160	0.69	0.8	0.97	0.76	0.61	0.72	0.88	0.84	0.9	0.9		
Cadmium	1.4	70	2.6	0.77	0.65	2.8	0.31 JQ	4.1	0.78	0.14 JQ	0.37 JQ	1.1		
Calcium	NA	NA	29100	2520	2690	3810	2220	5760	3150	2110	2450	2890		
Chromium	2135	280	15.8 JK	9.5 JK	8.2 JK	16.5 JK	5.5 JK	24.2 JK	8.3 JK	5.5 JK	6.5 JK	10.4 JK		
Cobalt	NA	23	5.8	6	7.1	8.1	5.9	8.3	6.8	7	8.2	7.7		
Copper	921	3100	108	52.6	42.5	138	24.8	154	54.4	14.8	25.6	66.2		
Iron	NA	55000	26600	20700	21100	41900	13400	38200	19900	17800	19700	29700		
Lead	50	400	323	163	74.3	5490	72.4	492	101	10.8	42.6	130		
Magnesium	NA	NA	4090	1650	1960	1700	1430	1940	1810	1490	1390	1750		
Manganese	223	NA	498	483	586	706	334	732 JH	519	450	508	574		
Mercury ¹	0.005	6.7	0.23 JH	0.21 JH	0.16 JH	0.59 JH	0.38 JH	0.6	0.11 JH	0.05 JQ	0.09 JQ	0.22 JH		
Nickel	59	1600	22.6	9.8	8.1	23	5.1	20.1	9.4	5	5.7	13.9		
Potassium	NA	NA	1680	1500	1750	1680	1330	1860	1540	1480	1420	1670		
Vanadium	NA	390	24.1	34.9	42	33	26.6	31.2	38	43.4	47.7	40.4		
Zinc	886	23000	847	294	213	825	134	948	233	51.6	111	291		
Pesticides/PCBs (ug/kg)														
4,4'-DDD	2439	2000	3.6 U	3.4 U	3.4 U	1.3 JQ	4.9	4.7	4 U	3.6 U	3.8 U	3.5 U		
4,4'-DDE	1722	1400	9.7	12	5.8	12	31	26	8.8	2.2 JQ	13	15		
4,4'-DDT	403	1700	22	19	5.1	30	24	54	8.5	2.1 JQ	15	21		
Aroclor-1254	740	220	36 U	89	34 U	23 JQ	140	120	64	36 U	30 JQ	24 JQ		
Geotechnical Analysis														
Moisture Content %					2.28							3.89		
Atterberg Limits					Non-Plastic							Non-Plastic		

Key:

- % = percent.
- H = High bias.
- ID IDTL - Residential = Idaho Department of Environmental Quality, Initial Default Target Levels, July 2004.
- J = The analyte was positively identified. The associated numerical result is an estimate.
- K = Unknown bias.
- L = Low bias.
- mg/kg = milligrams per kilogram.
- ug/kg = micrograms per kilogram.
- PCBs = polychlorinated biphenyls.
- Q = The sample result is estimated and is lower than the sample quantitation limit.
- R = The sample result is rejected. The data is unusable for any purpose.
- SVOCs = semivolatile organic compounds.
- TAL = Target Analyte List.
- U = The analyte was not detected at or above the reported result.
- EPA RSL = EPA Regional Screening Levels for Chemical Contaminants at Superfund Sites, September 12, 2008.
- VOCs = volatile organic compounds.

Notes:

- ¹ = EPA RSL provided is for elemental mercury.

Table C-5 Soil Gas Sample Results Analytical Data Summary

ANALYTE	MC21SG	MC22SG	MC23SG	MC24SG
VOCs (ug/m³)				
1,3-Butadiene	3.2 U	21	3.4 U	3.3 U
Hexane	5.1 U	8.1	6.8	5.2 U
2-Butanone	4.3 U	15	4.5 U	6.3
Acetone	37	87	39	49
Benzene	4.6 U	20	4.8 U	4.7 U
Carbon disulfide	4.5 U	23	5.6	4.6 U
Methylene chloride	96	9.3	71	9.1
Tetrachloroethene	9.8 U	88	10 U	10 U
Toluene	5.4 U	20	5.7 U	18

Key:

ug/m³

= micrograms per cubic meter.

U

= The analyte was not detected at or above the reported result.

VOCs

= volatile organic compounds.

D

Data Validation Memoranda



ecology and environment, inc.

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MEMORANDUM

DATE: October 7, 2008

TO: Linda Costello, Project Manager, E & E, Seattle, Washington

FROM: Mark Woodke, START-3 Chemist, E & E, Seattle, Washington *MW*

SUBJ: **Organic Data Summary Check, McCall – Old City Dump Site,
McCall, Idaho**

REF: TDD: 07-03-0007 **PAN:** 002233.0192.01BR

The data summary check of 20 soil samples collected from the McCall – Old City Dump site in McCall, Idaho, has been completed. Organic analysis (EPA CLP SOW SOM01.2) was performed by DataChem, Inc., Salt Lake City, Utah.

The samples were numbered: J94S6 J94S7 J94S8 J94S9 J94T0 J94T1 J94T2 J94T3 J94T4 J94T5 J94T6 J94T7 J94T8 J94T9 J94W0 J94W1 J94W2 J94W3 J94W4 J94W5

Estimated sample results less than the sample quantitation limit were qualified "Q" by the secondary reviewer.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 10
1200 Sixth Avenue
Seattle, WA 98101

October 2, 2008

MEMORANDUM

SUBJECT: Target Brownfield Data validation report for the Volatile Organics (VOCs), Semi-Volatile Organics (SVOCs), Organochlorine Pesticides (Pests) and Polychlorinated Biphenyls (PCBs) analyses of samples from Old McCall Landfill Case: 37584 SDG: J94S6

FROM: Raymond Wu, QA Chemist
Office of Environmental Assessment *10/2/08*

TO: Joanne Labaw, Site Assessment Manager
Office of Environmental Cleanup

CC: Renee Nordeen, Start-3 Project Leader
Ecology & Environment, Inc.

The quality assurance (QA) review of 20 soil samples collected from the above referenced site has been completed. The samples were analyzed for VOCs, SVOCs, Pesticides, and PCBs in accordance with the USEPA Contract Laboratory Program (CLP) Statement of Work (SOW) for Multi-Concentration Organic Analysis (SOM01.2) by Datachem Laboratories, Inc. in Salt Lake City, Utah. The following samples were evaluated in this validation report:

SDG: J94S6

J94S6	J94S7	J94S8	J94S9	J94T0	J94T1	J94T2
J94T3	J94T4	J94T5	J94T6	J94T7	J94T8	J94T9
J94W0	J94W1	J94W2	J94W3	J94W4	J94W5	

DATA QUALIFICATIONS

The following comments refer to the laboratory performance specification outlined in the Quality Assurance Project Plan dated May 1, 2008 by Ecology & Environment, Inc., USEPA CLP SOW for Organic Analysis (SOM01.2, 05/2008), and applicable criteria set forth in the USEPA CLP National Functional Guidelines for Organic Data Review (07/2007).

The data reviews conducted on these analyses were based on the QC Forms and Sample Data Summary Forms submitted by the laboratories. Review of the raw data of the analyses was not conducted. The conclusions presented herein are based on the information provided for the review.

The samples were evaluated based on the following QC elements:

- Holding Time
- Method and / or Trip Blanks
- Initial and Continuing Calibration
- Surrogate Recoveries
- Matrix Spike / Matrix Spike Duplicate (MS/MSD) Recoveries
- Target Compound and Reporting Limits
- GC/MS Spectra Matching Criteria

Overall Assessment

Volatiles

All of the samples met the technical acceptance criteria for each of the QC elements listed above with the following exceptions:

- 1,4-Dioxane, a target analyte in VOC initial calibration (5/27/08 @ 13:59), was lower than the required minimum RRF (0.01) and it was not detected in any samples. Due to the possibility of false negatives, all 1,4-Dioxane results were qualified unusable, "R".
- The continuing calibration verification (CCV) checks met the criteria for frequency of analysis, minimum response factors (RFs) and percent difference (%D) of the daily RF when compared to the mean RRF calculated from the initial calibration with the following exceptions:

Date/Time of Analysis/ Inst.	Compound	%D	Qualifier Detect/Non-detect	Associated Samples
8/8/08 09:15 (opening)	2-Butanone	-35.5	J/UJ	J94T7 -> J94T9 J94W0 -> J94W5 J94S6
	2-Hexanone	-32.5	J/UJ	"
8/11/08 09:08 (opening)	Acetone	-28.2	J/UJ	J94S7 -> J94S9 J94T0 -> J94T6

Deuterated Monitoring Compounds (DMCs)

Fourteen deuterated VOCS were spiked in all the samples and QC samples to evaluate laboratory performance. The 14 DMCs and their corresponding recovery acceptance limits are:

Soils

DMCs	Recovery Limits (%)	DMCs	Recovery Limits (%)
Vinyl chloride-d3 (VCL)	68-122	1,2-Dichloropropane-d6 (DPA)	74-124
Chloroethane-d5 (CLA)	61-130	Toluene-d8 (TOL)	78-121
1,1-Dichloroethene-d2 (DCE)	45-132	trans-1,3-dichloropropene-d4 (TDP)	72-130
2-Butanone-d5 (BUT)	20-182	2-Hexanone-d5 (HEX)	17-184
Chloroform-d (CLF)	72-123	1,4-Dioxane (DXE)	50-150
1,2-Dichloroethane-d4 (DCA)	79-122	1,1,2,2-Tetrachloroethane-d2 (TCA)	56-161
Benzene-d6 (BEN)	80-121	1,2-dichlorobenzene-d4 (DCZ)	70-131

All of the surrogate recoveries met the applicable recovery criteria with the following exceptions:

Sample	DMC	% Recovery	Qualification Detects/Non- detects	Associated VOCs
J94T9	BEN	124	J/None	Benzene

Note: None of the volatile re-runs were reported at the discretion of the reviewer.

Internal Standards

The acceptance criteria for internal standards (IS) are +/- 30 seconds for retention time (RT) shifts and 50% to 200% of the IS area as compared to the IS RT and area of the daily continuing calibration standard. All of the results met the IS area and RT shift criteria with exceptions of the following:

- J94T8 - Internal Standard #3 was lower than the QC limits
- J94T9 - Internal Standard #3 was lower than the QC limits
- J94W3 - Internal Standard #3 was lower than the QC limits
- J94W5 - Internal Standard #3 was lower than the QC limits

The corresponding compounds were qualified as J/UJ. They are as follows:

- For Internal Standard #3 (1,4-Dichlorobenzene-d4)
 - Bromoform, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 1,2-Dichlorobenzene, 1,2-Dibromo-3-Chloropropane, 1,2,4-Trichlorobenzene, 1,2,3-Trichlorobenzene

Blanks

The frequency of analysis of volatile blanks was met by all of the blanks analyzed. Trace levels of Methylene Chloride were detected in both method and storage blanks. Methylene Chloride is a common laboratory contaminant. Therefore, detected Methylene Chloride at concentrations less than 10x the blank values, within samples associated with these blanks, were qualified as non-detects, "U". Similarly, trace levels of Trichlorofluoromethane, Toluene and 1,2-Dichlorobenzene were found in the storage blank. Detected Trichlorofluoromethane, Toluene and 1,2-Dichlorobenzene at concentration less than 10x the blank values were also qualified as non-detected, "U".

Semivolatiles

All of the samples met the technical acceptance criteria for each of the QC elements listed previously with the exception of the following:

One ICAL was evaluated in this report. It met the technical acceptance criteria for the percent relative standard deviations (%RSDs) and the minimum relative response factors (RRFs) for all target compounds and surrogates with the exception of the following:

- The %RSD of 2,4-Dinitrophenol (37.4%) in the VOC initial calibration exceeded the control limit of 30%. Recalculation of the %RSD indicated that it was not linear at the low end of the curve and the corresponding samples would be J/UJ qualified for this analyte.
- The %RSD of 3,3'-Dichlorobenzidine (32.1%) in the VOC initial calibration exceeded the control limit of 30%. Recalculation of the %RSD indicated that it was not linear at the high end of the curve and the corresponding samples would be J/None qualified for this analyte.
- The continuing calibration verification (CCV) checks met the criteria for frequency of analysis, minimum response factors (RFs) and percent difference (%D) of the daily RF when compared to the mean RRF calculated from the initial calibration with the following exceptions:

Date/Time of Analysis/ Inst.	Compound	%D	Qualifier Detect/Non-detect	Associated Samples
8/15/08 13:14 (opening)	Hexachlorocyclopentadiene	32.5	J/None	J94S8, J94T1 J94T3, J94W1 J94W4
	Hexachlorobenzene	32.0	J/None	"
8/16/08 18:26 (opening)	N-Nitroso-di-n-propylamine	-34.3	J/UJ	J94S6 -> J94S7 J94S9, J94T0 J94T2, J94W0 J94T4 -> J94T9 J94W2 -> J94W3 J94W5
	Nitrobenzene	-30.7	J/UJ	"

	Isophorone	-27.3	J/UJ	"
	Hexachlorocyclopentadiene	37.0	J/None	"
	2-Nitroaniline	-33.6	J/UJ	"

Deuterated Monitoring Compounds (DMCs)

Sixteen deuterated SVOCS were spiked in all the samples and QC samples to evaluate laboratory performance. The sixteen DMCs and their corresponding recovery acceptance limits are:

SVOC DMCs (Soil)	Recovery Limits (%)	SVOC DMCs (Soil)	Recovery Limits (%)
Phenol-d5 (PHL)	17-103	Dimethylphthalate-d6 (DMP)	43-111
Bis-(2-chloroethyl) ether-d8 (BCE)	12-98	Acenaphthylene-d8 (ACY)	20-97
2-Chlorophenol-d4 (2CP)	13-101	4-Nitrophenol-d4 (4NP)	16-166
4-Methylphenol-d8 (4MP)	8-100	Fluorene-d10 (FLR)	40-108
Nitrobenzene-d5 (NBZ)	16-103	4,6-Dinitro-2-methylphenol-d2 (NMP)	1-121
2-Nitrophenol-d4 (2NP)	16-104	Anthracene-d10 (ANC)	22-98
2,4-Dichlorophenol-d3 (DCP)	23-104	Pyrene-d10 (PYR)	51-120
4-Chloroaniline-d4 (4CA)	1-145	Benzo(a)pyrene-d12 (BAP)	43-111

All of the surrogate recoveries met the applicable recovery criteria with the following exceptions:

Sample	DMC	% Recovery	Qualification Detects/Non- detects	Associated VOCs
J94S8	PYR	49	J/UJ	Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene
J94T0	4CA	0	J/UJ	4-Chloroaniline, Hexachlorocyclopentadiene, 3,3'-Dichlorobenzidine
	PYR	49	J/UJ	Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene
J94T3	PYR	48	J/UJ	Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene
J94T5	4CA	0	J/UJ	4-Chloroaniline, Hexachlorocyclopentadiene, 3,3'-Dichlorobenzidine
J94T8	PYR	49	J/UJ	Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene
J94W2	PYR	40	J/UJ	Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene

	BAP	40	J/UJ	Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenzo(a,h)anthracene, Benzo(g,h,i)perylene
J94W4	PYR	41	J/UJ	Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene

Blanks

The frequency of analysis of blanks was met by all of the blanks analyzed. There was only trace amount of Bis (2-Ethylhexyl) phthalate detected in the extracted blank. At the discretion of the reviewer, the only data qualified (with a "U") are those with concentration less than that of CRQL, after blank subtraction.

Pesticide/PCBs

- The target pesticide analyte, with results below the CRQL, from two dissimilar columns:
 - (1) < 30% D, no qualifier was needed;
 - (2) Between 30% - 60% D, qualified them J;
 - (3) >60% D, qualified them U & raise the detection limit to the CRQL.

The frequency of analysis of CCV checks, chromatographic resolution, percent differences (%Ds) between the mean and daily response (calibration) factors, minimum response factors, retention time shifts and percent DDT and endrin breakdowns (in Pesticide & PCB analyses) were met by all target compounds and surrogates. The recoveries of the pesticide & PCB standard mixtures were within the control limits. The blanks were clean. None of the pest/PCB data was qualified on this basis.

The data, as qualified, can be used for all purposes.

Data Qualifiers		
	U	The analyte was not detected at or above the reported result.
	J	The analyte was positively identified. The associated numerical result is an estimate.
	UJ	The analyte was not detected at or above the reported estimated result. The associated numerical value is an estimate of the quantitation limit of the analyte in this sample.
	R	The data are unusable for all purposes.
	N	There is evidence the analyte is present in this sample.
	JN	There is evidence that the analyte is present. The associated numerical result is an estimate.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J94S6

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026
 Lab Code: DATAC Case No.: 37584 Mod. Ref No.: SDG No.: J94S6
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 8215001001
 Sample wt/vol: 3.75 (g/mL) g Lab File ID: SD08R001
 Level: (TRACE/LOW/MED) LOW Date Received: 08/02/2008
 % Moisture: not dec. 16. Date Analyzed: 08/08/2008
 GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0
 Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)
 Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
75-71-8	Dichlorodifluoromethane	7.9	U
74-87-3	Chloromethane	7.9	U
75-01-4	Vinyl chloride	7.9	U
74-83-9	Bromomethane	7.9	U
75-00-3	Chloroethane	7.9	U
75-69-4	Trichlorofluoromethane	7.9 ± .33	JU
75-35-4	1,1-Dichloroethene	7.9	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	7.9	U
67-64-1	Acetone	16.	U
75-15-0	Carbon disulfide	7.9	U
79-20-9	Methyl acetate	7.9	U
75-09-2	Methylene chloride	7.9 ± .6	JBU
156-60-5	trans-1,2-Dichloroethene	7.9	U
1634-04-4	Methyl tert-butyl ether	7.9	U
75-34-3	1,1-Dichloroethane	7.9	U
156-59-2	cis-1,2-Dichloroethene	7.9	U
78-93-3	2-Butanone	16.	UJ
74-97-5	Bromoform	7.9	U
67-66-3	Chloroform	7.9	U
71-55-6	1,1,1-Trichloroethane	7.9	U
110-82-7	Cyclohexane	7.9	U
56-23-5	Carbon tetrachloride	7.9	U
71-43-2	Benzene	1.5	JX
107-06-2	1,2-Dichloroethane	7.9	U
123-91-1	1,4-Dioxane	160	X R

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1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J94S6

Lab Name: DataChem Laboratories, Inc.

Contract: EP-W-05-026

Lab Code: DATA~~C~~ Case No.: 37584 Mod. Ref No.: SDG No.: J94S6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 8215001001

Sample wt/vol: 3.75 (g/mL) g Lab File ID: SD08R001

Level: (TRACE/LOW/MED) LOW Date Received: 08/02/2008

% Moisture: not dec. 16. Date Analyzed: 08/08/2008

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
79-01-6	Trichloroethene	7.9	U
108-87-2	Methylcyclohexane	7.9	U
78-87-5	1, 2-Dichloropropane	7.9	U
75-27-4	Bromodichloromethane	7.9	U
10061-01-5	cis-1, 3-Dichloropropene	7.9	U
108-10-1	4-Methyl-2-Pentanone	16.	U
108-88-3	Toluene	7.9 0.78	2 U
10061-02-6	trans-1, 3-Dichloropropene	7.9	U
79-00-5	1, 1, 2-Trichloroethane	7.9	U
127-18-4	Tetrachloroethene	0.59	J
591-78-6	2-Hexanone	16.	U
124-48-1	Dibromochloromethane	7.9	U
106-93-4	1, 2-Dibromoethane	7.9	U
108-90-7	Chlorobenzene	7.9	U
100-41-4	Ethylbenzene	7.9	U
95-47-6	o-Xylene	7.9	U
179601-23-1	m, p-Xylene	7.9	U
100-42-5	Styrene	7.9	U
75-25-2	Bromoform	7.9	U
98-82-8	Isopropylbenzene	7.9	U
79-34-5	1, 1, 2, 2-Tetrachloroethane	7.9	U
541-73-1	1, 3-Dichlorobenzene	7.9	U
106-46-7	1, 4-Dichlorobenzene	7.9	U
95-50-1	1, 2-Dichlorobenzene	7.9 0.42	2 U
96-12-8	1, 2-Dibromo-3-chloropropane	7.9	U
120-82-1	1, 2, 4-Trichlorobenzene	7.9	U
87-61-6	1, 2, 3-Trichlorobenzene	7.9	U

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1J - FORM I VOA-TIC.
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

J94S6

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026
 Lab Code: DATAC Case No.: 37584 Mod. Ref No.: SDG No.: J94S6
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 8215001001
 Sample wt/vol: 3.75 (g/mL) g Lab File ID: SD08R001
 Level: (TRACE/LOW/MED) LOW Date Received: 08/02/2008
 % Moisture: not dec. 16. Date Analyzed: 08/08/2008
 GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0
 Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)
 CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01				
02				
03				
04				
05				
06				
07				
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21				
22				
23				
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25				
26				
27				
28				
29				
30				
E966796 ¹	Total Alkanes	N/A		

¹EPA-designated Registry Number.

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SOM01.2 (6/2007)

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J94S7

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026
 Lab Code: DATAC Case No.: 37584 Mod. Ref No.: SDG No.: J94S6
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 8215001002
 Sample wt/vol: 2.83 (g/mL) g Lab File ID: SD27T002
 Level: (TRACE/LOW/MED) LOW Date Received: 08/02/2008
 % Moisture: not dec. 26. Date Analyzed: 08/11/2008
 GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0
 Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)
 Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
75-71-8	Dichlorodifluoromethane	12.	U
74-87-3	Chloromethane	12.	U
75-01-4	Vinyl chloride	12.	U
74-83-9	Bromomethane	12.	U
75-00-3	Chloroethane	12.	U
75-69-4	Trichlorofluoromethane	12. 2-1	JU
75-35-4	1,1-Dichloroethene	12.	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	12.	U
67-64-1	Acetone	17.	JQ
75-15-0	Carbon disulfide	12.	U
79-20-9	Methyl acetate	12.	U
75-09-2	Methylene chloride	12. 2-3	JB U
156-60-5	trans-1,2-Dichloroethene	12.	U
1634-04-4	Methyl tert-butyl ether	12.	U
75-34-3	1,1-Dichloroethane	12.	U
156-59-2	cis-1,2-Dichloroethene	12.	U
78-93-3	2-Butanone	24.	U
74-97-5	Bromoform	12.	U
67-66-3	Chloroform	12.	U
71-55-6	1,1,1-Trichloroethane	12.	U
110-82-7	Cyclohexane	12.	U
56-23-5	Carbon tetrachloride	12.	U
71-43-2	Benzene	12.	U
107-06-2	1,2-Dichloroethane	12.	U
123-91-1	1,4-Dioxane	240	XR

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1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J94S7

Lab Name: DataChem Laboratories, Inc.

Contract: EP-W-05-026

Lab Code: DATAC Case No.: 37584 Mod. Ref No.: _____ SDG No.: J94S6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 8215001002

Sample wt/vol: 2.83 (g/mL) g Lab File ID: SD27T002

Level: (TRACE/LOW/MED) LOW Date Received: 08/02/2008

% Moisture: not dec. 26. Date Analyzed: 08/11/2008

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
79-01-6	Trichloroethene	12.	U
108-87-2	Methylcyclohexane	12.	U
78-87-5	1,2-Dichloropropane	12.	U
75-27-4	Bromodichloromethane	12.	U
10061-01-5	cis-1,3-Dichloropropene	12.	U
108-10-1	4-Methyl-2-Pentanone	24.	U
108-88-3	Toluene	12. 1.3	± U
10061-02-6	trans-1,3-Dichloropropene	12.	U
79-00-5	1,1,2-Trichloroethane	12.	U
127-18-4	Tetrachloroethene	1.5	JQ
591-78-6	2-Hexanone	24.	U
124-48-1	Dibromochloromethane	12.	U
106-93-4	1,2-Dibromoethane	12.	U
108-90-7	Chlorobenzene	12.	U
100-41-4	Ethylbenzene	12.	U
95-47-6	o-Xylene	12.	U
179601-23-1	m,p-Xylene	12.	U
100-42-5	Styrene	12.	U
75-25-2	Bromoform	12.	U
98-82-8	Isopropylbenzene	12.	U
79-34-5	1,1,2,2-Tetrachloroethane	12.	U
541-73-1	1,3-Dichlorobenzene	12.	U
106-46-7	1,4-Dichlorobenzene	12.	U
95-50-1	1,2-Dichlorobenzene	12. 1.7	± U
96-12-8	1,2-Dibromo-3-chloropropane	12.	U
120-82-1	1,2,4-Trichlorobenzene	12.	U
87-61-6	1,2,3-Trichlorobenzene	12.	U

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1J - FORM I VOA-TIC
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

J94S7

Lab Name: <u>DataChem Laboratories, Inc.</u>	Contract: <u>EP-W-05-026</u>		
Lab Code: <u>DATAAC</u>	Case No.: <u>37584</u>	Mod. Ref No.: _____	SDG No.: <u>J94S6</u>
Matrix: (SOIL/SED/WATER) <u>SOIL</u>	Lab Sample ID: <u>8215001002</u>		
Sample wt/vol: <u>2.83</u> (g/mL) <u>g</u>	Lab File ID: <u>SD27T002</u>		
Level: (TRACE/LOW/MED) <u>LOW</u>	Date Received: <u>08/02/2008</u>		
% Moisture: not dec. 26.	Date Analyzed: <u>08/11/2008</u>		
GC Column: <u>DB624</u>	<u>ID: 0.53</u>	(mm)	Dilution Factor: <u>1.0</u>
Soil Extract Volume: _____	(<u>uL</u>)	Soil Aliquot Volume: _____ (<u>uL</u>)	
CONCENTRATION UNITS: (<u>ug/L or ug/kg</u>) <u>ug/kg</u>		Purge Volume: <u>10.0</u> (<u>mL</u>)	

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01				
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
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25				
26				
27				
28				
29				
30				
E966796 ¹	Total Alkanes		N/A	

¹EPA-designated Registry Number.

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1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J94S8

Lab Name: DataChem Laboratories, Inc.

Contract: EP-W-05-026

Lab Code: DATA C Case No.: 37584 Mod. Ref No.: _____ SDG No.: J94S6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 8215001003

Sample wt/vol: 4.70 (g/mL) g Lab File ID: SD15R003

Level: (TRACE/LOW/MED) LOW Date Received: 08/02/2008

% Moisture: not dec. 17. Date Analyzed: 08/11/2008

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
75-71-8	Dichlorodifluoromethane	6.4	U
74-87-3	Chloromethane	6.4	U
75-01-4	Vinyl chloride	6.4	U
74-83-9	Bromomethane	6.4	U
75-00-3	Chloroethane	6.4	U
75-69-4	Trichlorodifluoromethane	64 ± 1	± U
75-35-4	1,1-Dichloroethene	6.4	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	6.4	U
67-64-1	Acetone	13.	UI
75-15-0	Carbon disulfide	6.4	U
79-20-9	Methyl acetate	6.4	U
75-09-2	Methylene chloride	64 ± 5	± BU
156-60-5	trans-1,2-Dichloroethene	6.4	U
1634-04-4	Methyl tert-butyl ether	6.4	U
75-34-3	1,1-Dichloroethane	6.4	U
156-59-2	cis-1,2-Dichloroethene	6.4	U
78-93-3	2-Butanone	13.	U
74-97-5	Bromoform	6.4	U
67-66-3	Chloroform	6.4	U
71-55-6	1,1,1-Trichloroethane	6.4	U
110-82-7	Cyclohexane	6.4	U
56-23-5	Carbon tetrachloride	6.4	U
71-43-2	Benzene	6.4	U
107-06-2	1,2-Dichloroethane	6.4	U
123-91-1	1,4-Dioxane	130	OR

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1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J94S8

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026
 Lab Code: DATAC Case No.: 37584 Mod. Ref No.: SDG No.: J94S6
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 8215001003
 Sample wt/vol: 4.70 (g/mL) g Lab File ID: SD15R003
 Level: (TRACE/LOW/MED) LOW Date Received: 08/02/2008
 % Moisture: not dec. 17. Date Analyzed: 08/11/2008
 GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0
 Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)
 Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
79-01-6	Trichloroethene	6.4	U
108-87-2	Methylcyclohexane	6.4	U
78-87-5	1,2-Dichloropropane	6.4	U
75-27-4	Bromodichloromethane	6.4	U
10061-01-5	cis-1,3-Dichloropropene	6.4	U
108-10-1	4-Methyl-2-Pentanone	13.	U
108-88-3	Toluene	6.4 2.1	± U
10061-02-6	trans-1,3-Dichloropropene	6.4	U
79-00-5	1,1,2-Trichloroethane	6.4	U
127-18-4	Tetrachloroethene	0.99	JQ
591-78-6	2-Hexanone	13.	U
124-48-1	Dibromochloromethane	6.4	U
106-93-4	1,2-Dibromoethane	6.4	U
108-90-7	Chlorobenzene	6.4	U
100-41-4	Ethylbenzene	0.33	JQ
95-47-6	o-Xylene	6.4	U
179601-23-1	m,p-Xylene	0.44	JQ
100-42-5	Styrene	6.4	U
75-25-2	Bromoform	6.4	UJ
98-82-8	Isopropylbenzene	6.4	U
79-34-5	1,1,2,2-Tetrachloroethane	6.4	U
541-73-1	1,3-Dichlorobenzene	6.4	UJ
106-46-7	1,4-Dichlorobenzene	6.4	UJ
95-50-1	1,2-Dichlorobenzene	6.4 0.81	± U
96-12-8	1,2-Dibromo-3-chloropropane	6.4	UJ
120-82-1	1,2,4-Trichlorobenzene	6.4	UJ
87-61-6	1,2,3-Trichlorobenzene	6.4	UJ

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1J - FORM I VOA-TIC
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

J94S8

Lab Name: <u>DataChem Laboratories, Inc.</u>	Contract: <u>EP-W-05-026</u>		
Lab Code: <u>DATAC</u>	Case No.: <u>37584</u>	Mod. Ref No.: _____	SDG No.: <u>J94S6</u>
Matrix: (SOIL/SED/WATER) <u>SOIL</u>	Lab Sample ID: <u>8215001003</u>		
Sample wt/vol: <u>4.70</u> (g/mL) <u>g</u>	Lab File ID: <u>SD15R003</u>		
Level: (TRACE/LOW/MED) <u>LOW</u>	Date Received: <u>08/02/2008</u>		
% Moisture: not dec. <u>17.</u>	Date Analyzed: <u>08/11/2008</u>		
GC Column: <u>DB624</u>	<u>ID: 0.53</u>	(mm)	Dilution Factor: <u>1.0</u>
Soil Extract Volume: _____	(uL)	Soil Aliquot Volume: _____	(uL)
CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/kg</u>	Purge Volume: <u>10.0</u> (mL)		

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01				
02				
03				
04				
05				
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23				
24				
25				
26				
27				
28				
29				
30				
E966796 ¹	Total Alkanes	N/A		

¹EPA-designated Registry Number.

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1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J94S9

Lab Name: DataChem Laboratories, Inc.

Contract: EP-W-05-026

Lab Code: DATAC Case No.: 37584 Mod. Ref No.: _____ SDG No.: J94S6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 8215001004

Sample wt/vol: 4.23 (g/mL) g Lab File ID: SD16R004

Level: (TRACE/LOW/MED) LOW Date Received: 08/02/2008

% Moisture: not dec. 21. Date Analyzed: 08/11/2008

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
75-71-8	Dichlorodifluoromethane	7.5	U
74-87-3	Chloromethane	7.5	U
75-01-4	Vinyl chloride	7.5	U
74-83-9	Bromomethane	7.5	U
75-00-3	Chloroethane	7.5	U
75-69-4	Trichlorofluoromethane	7.5	U
75-35-4	1,1-Dichloroethene	7.5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	7.5	U
67-64-1	Acetone	7.0	J
75-15-0	Carbon disulfide	7.5	U
79-20-9	Methyl acetate	7.5	U
75-09-2	Methylene chloride	7.5	JB U
156-60-5	trans-1,2-Dichloroethene	7.5	U
1634-04-4	Methyl tert-butyl ether	7.5	U
75-34-3	1,1-Dichloroethane	7.5	U
156-59-2	cis-1,2-Dichloroethene	7.5	U
78-93-3	2-Butanone	15.	U
74-97-5	Bromochloromethane	7.5	U
67-66-3	Chloroform	7.5	U
71-55-6	1,1,1-Trichloroethane	7.5	U
110-82-7	Cyclohexane	7.5	U
56-23-5	Carbon tetrachloride	7.5	U
71-43-2	Benzene	1.3	J
107-06-2	1,2-Dichloroethane	7.5	U
123-91-1	1,4-Dioxane	150	JR

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1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J94S9

Lab Name: DataChem Laboratories, Inc.

Contract: EP-W-05-026

Lab Code: DATA C Case No.: 37584 Mod. Ref No.: _____ SDG No.: J94S6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 8215001004

Sample wt/vol: 4.23 (g/mL) g Lab File ID: SD16R004

Level: (TRACE/LOW/MED) LOW Date Received: 08/02/2008

% Moisture: not dec. 21. Date Analyzed: 08/11/2008

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/kg</u>	Q
79-01-6	Trichloroethene	7.5	U
108-87-2	Methylcyclohexane	7.5	U
78-87-5	1,2-Dichloropropane	7.5	U
75-27-4	Bromodichloromethane	7.5	U
10061-01-5	cis-1,3-Dichloropropene	7.5	U
108-10-1	4-Methyl-2-Pentanone	15.	U
108-88-3	Toluene	7.5 ^a	± U
10061-02-6	trans-1,3-Dichloropropene	7.5	U
79-00-5	1,1,2-Trichloroethane	7.5	U
127-18-4	Tetrachloroethene	7.4	J Q
591-78-6	2-Hexanone	15.	U
124-48-1	Dibromochloromethane	7.5	U
106-93-4	1,2-Dibromoethane	7.5	U
108-90-7	Chlorobenzene	7.5	U
100-41-4	Ethylbenzene	0.39	J Q
95-47-6	o-Xylene	7.5	U
179601-23-1	m,p-Xylene	0.50	J Q
100-42-5	Styrene	7.5	U
75-25-2	Bromoform	7.5	U
98-82-8	Isopropylbenzene	7.5	U
79-34-5	1,1,2,2-Tetrachloroethane	7.5	U
541-73-1	1,3-Dichlorobenzene	7.5	U
106-46-7	1,4-Dichlorobenzene	7.5	U
95-50-1	1,2-Dichlorobenzene	7.5 ^a	± U
96-12-8	1,2-Dibromo-3-chloropropane	7.5	U
120-82-1	1,2,4-Trichlorobenzene	7.5	U
87-61-6	1,2,3-Trichlorobenzene	7.5	U

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1J - FORM I VOA-TIC
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

J94S9

Lab Name: DataChem Laboratories, Inc.

Contract: EP-W-05-026

Lab Code: DATAC Case No.: 37584 Mod. Ref No.: _____ SDG No.: J94S6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 8215001004

Sample wt/vol: 4.23 (g/mL) g Lab File ID: SD16R004

Level: (TRACE/LOW/MED) LOW Date Received: 08/02/2008

% Moisture: not dec. 21. Date Analyzed: 08/11/2008

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01				
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
E966796 ¹	Total Alkanes	N/A		

¹EPA-designated Registry Number.

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1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J94TO

Lab Name: DataChem Laboratories, Inc.

Contract: EP-W-05-026

Lab Code: DATAC Case No.: 37584 Mod. Ref No.: _____ SDG No.: J94S6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 8215001005

Sample wt/vol: 3.37 (g/mL) g Lab File ID: SD17R005

Level: (TRACE/LOW/MED) LOW Date Received: 08/02/2008

% Moisture: not dec. 7.4 Date Analyzed: 08/11/2008

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/kg</u>	Q
75-71-8	Dichlorodifluoromethane	8.0	U
74-87-3	Chloromethane	8.0	U
75-01-4	Vinyl chloride	8.0	U
74-83-9	Bromomethane	8.0	U
75-00-3	Chloroethane	8.0	U
75-69-4	Trichlorodifluoromethane	8.0 ± 6	± U
75-35-4	1,1-Dichloroethene	8.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	8.0	U
67-64-1	Acetone	16.	U
75-15-0	Carbon disulfide	8.0	U
79-20-9	Methyl acetate	8.0	U
75-09-2	Methylene chloride	8.0 ± 5	± U
156-60-5	trans-1,2-Dichloroethene	8.0	U
1634-04-4	Methyl tert-butyl ether	8.0	U
75-34-3	1,1-Dichloroethane	8.0	U
156-59-2	cis-1,2-Dichloroethene	8.0	U
78-93-3	2-Butanone	16.	U
74-97-5	Bromoform	8.0	U
67-66-3	Chloroform	8.0	U
71-55-6	1,1,1-Trichloroethane	8.0	U
110-82-7	Cyclohexane	8.0	U
56-23-5	Carbon tetrachloride	8.0	U
71-43-2	Benzene	8.0	U
107-06-2	1,2-Dichloroethane	8.0	U
123-91-1	1,4-Dioxane	160	± R

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1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J94T0

Lab Name: DataChem Laboratories, Inc.

Contract: EP-W-05-026

Lab Code: DATAAC Case No.: 37584 Mod. Ref No.: _____ SDG No.: J94S6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 8215001005

Sample wt/vol: 3.37 (g/mL) g Lab File ID: SD17R005

Level: (TRACE/LOW/MED) LOW Date Received: 08/02/2008

% Moisture: not dec. 7.4 Date Analyzed: 08/11/2008

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
79-01-6	Trichloroethene	8.0	U
108-87-2	Methylcyclohexane	8.0	U
78-87-5	1,2-Dichloropropane	8.0	U
75-27-4	Bromodichloromethane	8.0	U
10061-01-5	cis-1,3-Dichloropropene	8.0	U
108-10-1	4-Methyl-2-Pantanone	16.	U
108-88-3	Toluene	8.0 1.3	± U
10061-02-6	trans-1,3-Dichloropropene	8.0	U
79-00-5	1,1,2-Trichloroethane	8.0	U
127-18-4	Tetrachloroethene	8.0	U
591-78-6	2-Hexanone	16.	U
124-48-1	Dibromochloromethane	8.0	U
106-93-4	1,2-Dibromoethane	8.0	U
108-90-7	Chlorobenzene	8.0	U
100-41-4	Ethylbenzene	8.0	U
95-47-6	o-Xylene	8.0	U
179601-23-1	m,p-Xylene	0.30	J Q
100-42-5	Styrene	8.0	U
75-25-2	Bromoform	8.0	U
98-82-8	Isopropylbenzene	8.0	U
79-34-5	1,1,2,2-Tetrachloroethane	8.0	U
541-73-1	1,3-Dichlorobenzene	8.0	U
106-46-7	1,4-Dichlorobenzene	8.0	U
95-50-1	1,2-Dichlorobenzene	8.0 0.43	± U
96-12-8	1,2-Dibromo-3-chloropropane	8.0	U
120-82-1	1,2,4-Trichlorobenzene	8.0	U
87-61-6	1,2,3-Trichlorobenzene	8.0	U

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1J - FORM I VOA-TIC
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

J94TO

Lab Name: <u>DataChem Laboratories, Inc.</u>	Contract: <u>EP-W-05-026</u>		
Lab Code: <u>DATAC</u>	Case No.: <u>37584</u>	Mod. Ref No.: _____	SDG No.: <u>J94S6</u>
Matrix: (SOIL/SED/WATER) <u>SOIL</u>	Lab Sample ID: <u>8215001005</u>		
Sample wt/vol: <u>3.37</u> (g/mL) <u>g</u>	Lab File ID: <u>SD17R005</u>		
Level: (TRACE/LOW/MED) <u>LOW</u>	Date Received: <u>08/02/2008</u>		
% Moisture: not dec. <u>7.4</u>	Date Analyzed: <u>08/11/2008</u>		
GC Column: <u>DB624</u>	<u>ID: 0.53</u>	(mm)	Dilution Factor: <u>1.0</u>
Soil Extract Volume: _____	(uL)	Soil Aliquot Volume: _____	(uL)
CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/kg</u>		Purge Volume: <u>10.0</u> (mL)	

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01				
02				
03				
04				
05				
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07				
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27				
28				
29				
30				
E966796 ¹	Total Alkanes	N/A		

¹EPA-designated Registry Number.

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 SOM01.2 (6/2007)

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1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J94T1

Lab Name: DataChem Laboratories, Inc.

Contract: EP-W-05-026

Lab Code: DATAC Case No.: 37584 Mod. Ref No.: _____ SDG No.: J94S6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 8215001006

Sample wt/vol: 4.36 (g/mL) g Lab File ID: SD18R006

Level: (TRACE/LOW/MED) LOW Date Received: 08/02/2008

% Moisture: not dec. 9.6 Date Analyzed: 08/11/2008

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
75-71-8	Dichlorodifluoromethane	6.3	U
74-87-3	Chloromethane	6.3	U
75-01-4	Vinyl chloride	6.3	U
74-83-9	Bromomethane	6.3	U
75-00-3	Chloroethane	6.3	U
75-69-4	Trichlorofluoromethane	63 0.0±	±U
75-35-4	1,1-Dichloroethene	6.3	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	6.3	U
67-64-1	Acetone	13.	U
75-15-0	Carbon disulfide	6.3	U
79-20-9	Methyl acetate	6.3	U
75-09-2	Methylene chloride	6.3 0.90	±B U
156-60-5	trans-1,2-Dichloroethene	6.3	U
1634-04-4	Methyl tert-butyl ether	6.3	U
75-34-3	1,1-Dichloroethane	6.3	U
156-59-2	cis-1,2-Dichloroethene	6.3	U
78-93-3	2-Butanone	13.	U
74-97-5	Bromochloromethane	6.3	U
67-66-3	Chloroform	6.3	U
71-55-6	1,1,1-Trichloroethane	6.3	U
110-82-7	Cyclohexane	6.3	U
56-23-5	Carbon tetrachloride	6.3	U
71-43-2	Benzene	6.3	U
107-06-2	1,2-Dichloroethane	6.3	U
123-91-1	1,4-Dioxane	130	XR

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1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J94T1

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026
 Lab Code: DATAAC Case No.: 37584 Mod. Ref No.: _____ SDG No.: J94S6
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 8215001006
 Sample wt/vol: 4.36 (g/mL) g Lab File ID: SD18R006
 Level: (TRACE/LOW/MED) LOW Date Received: 08/02/2008
 % Moisture: not dec. 9.6 Date Analyzed: 08/11/2008
 GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
 Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
79-01-6	Trichloroethene	6.3	U
108-87-2	Methylcyclohexane	6.3	U
78-87-5	1,2-Dichloropropane	6.3	U
75-27-4	Bromodichloromethane	6.3	U
10061-01-5	cis-1,3-Dichloropropene	6.3	U
108-10-1	4-Methyl-2-Pentanone	13.	U
108-88-3	Toluene	6.3 ± 1	± U
10061-02-6	trans-1,3-Dichloropropene	6.3	U
79-00-5	1,1,2-Trichloroethane	6.3	U
127-18-4	Tetrachloroethene	6.3	U
591-78-6	2-Hexanone	13.	U
124-48-1	Dibromochloromethane	6.3	U
106-93-4	1,2-Dibromoethane	6.3	U
108-90-7	Chlorobenzene	6.3	U
100-41-4	Ethylbenzene	6.3	U
95-47-6	o-Xylene	6.3	U
179601-23-1	m,p-Xylene	6.3	U
100-42-5	Styrene	6.3	U
75-25-2	Bromoform	6.3	U
98-82-8	Isopropylbenzene	6.3	U
79-34-5	1,1,2,2-Tetrachloroethane	6.3	U
541-73-1	1,3-Dichlorobenzene	6.3	U
106-46-7	1,4-Dichlorobenzene	6.3	U
95-50-1	1,2-Dichlorobenzene	6.3 ± 0.51	± U
96-12-8	1,2-Dibromo-3-chloropropane	6.3	U
120-82-1	1,2,4-Trichlorobenzene	6.3	U
87-61-6	1,2,3-Trichlorobenzene	6.3	U

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1J - FORM I VOA-TIC
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

J94T1

Lab Name: <u>DataChem Laboratories, Inc.</u>	Contract: <u>EP-W-05-026</u>		
Lab Code: <u>DATAc</u>	Case No.: <u>37584</u>	Mod. Ref No.: _____	SDG No.: <u>J94S6</u>
Matrix: (SOIL/SED/WATER) <u>SOIL</u>	Lab Sample ID: <u>8215001006</u>		
Sample wt/vol: <u>4.36</u> (g/mL) <u>g</u>	Lab File ID: <u>SD18R006</u>		
Level: (TRACE/LOW/MED) <u>LOW</u>	Date Received: <u>08/02/2008</u>		
% Moisture: not dec. <u>9.6</u>	Date Analyzed: <u>08/11/2008</u>		
GC Column: <u>DB624</u>	<u>ID: 0.53</u>	(mm)	Dilution Factor: <u>1.0</u>
Soil Extract Volume: _____	(uL)	Soil Aliquot Volume: _____	(uL)
CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/kg</u>			
Purge Volume: <u>10.0</u> (mL)			

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01				
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
E966796 ¹	Total Alkanes		N/A	

¹EPA-designated Registry Number.

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1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J94T2

Lab Name: DataChem Laboratories, Inc.

Contract: EP-W-05-026

Lab Code: DATAC Case No.: 37584 Mod. Ref No.: _____ SDG No.: J94S6

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: 8215001007

Sample wt/vol: 1.87 (g/mL) g

Lab File ID: SD19R007

Level: (TRACE/LOW/MED) LOW

Date Received: 08/02/2008

% Moisture: not dec. 3.7

Date Analyzed: 08/11/2008

GC Column: DB624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
75-71-8	Dichlorodifluoromethane	14.	U
74-87-3	Chloromethane	14.	U
75-01-4	Vinyl chloride	14.	U
74-83-9	Bromomethane	14.	U
75-00-3	Chloroethane	14.	U
75-69-4	Trichlorofluoromethane	143.0	JU
75-35-4	1,1-Dichloroethene	14.	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	14.	U
67-64-1	Acetone	28.	UJ
75-15-0	Carbon disulfide	14.	U
79-20-9	Methyl acetate	14.	U
75-09-2	Methylene chloride	16.	B
156-60-5	trans-1,2-Dichloroethene	14.	U
1634-04-4	Methyl tert-butyl ether	14.	U
75-34-3	1,1-Dichloroethane	14.	U
156-59-2	cis-1,2-Dichloroethene	14.	U
78-93-3	2-Butanone	28.	U
74-97-5	Bromochloromethane	14.	U
67-66-3	Chloroform	14.	U
71-55-6	1,1,1-Trichloroethane	14.	U
110-82-7	Cyclohexane	14.	U
56-23-5	Carbon tetrachloride	14.	U
71-43-2	Benzene	3.2	JQ
107-06-2	1,2-Dichloroethane	14.	U
123-91-1	1,4-Dioxane	280	JR

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1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J94T2

Lab Name: DataChem Laboratories, Inc.

Contract: EP-W-05-026

Lab Code: DATAAC Case No.: 37584 Mod. Ref No.: SDG No.: J94S6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 8215001007

Sample wt/vol: 1.87 (g/mL) g Lab File ID: SD19R007

Level: (TRACE/LOW/MED) LOW Date Received: 08/02/2008

% Moisture: not dec. 3.7 Date Analyzed: 08/11/2008

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
79-01-6	Trichloroethene	14.	U
108-87-2	Methylcyclohexane	14.	U
78-87-5	1,2-Dichloropropane	14.	U
75-27-4	Bromodichloromethane	14.	U
10061-01-5	cis-1,3-Dichloropropene	14.	U
108-10-1	4-Methyl-2-Pentanone	28.	U
108-88-3	Toluene	17.	
10061-02-6	trans-1,3-Dichloropropene	14.	U
79-00-5	1,1,2-Trichloroethane	14.	U
127-18-4	Tetrachloroethene	14.	U
591-78-6	2-Hexanone	28.	U
124-48-1	Dibromochloromethane	14.	U
106-93-4	1,2-Dibromoethane	14.	U
108-90-7	Chlorobenzene	14.	U
100-41-4	Ethylbenzene	2.7	J Q
95-47-6	o-Xylene	2.4	J Q
179601-23-1	m,p-Xylene	7.7	J Q
100-42-5	Styrene	14.	U
75-25-2	Bromoform	14.	U
98-82-8	Isopropylbenzene	14.	U
79-34-5	1,1,2,2-Tetrachloroethane	14.	U
541-73-1	1,3-Dichlorobenzene	14.	U
106-46-7	1,4-Dichlorobenzene	0.38	J Q
95-50-1	1,2-Dichlorobenzene	14 ± 6	± U
96-12-8	1,2-Dibromo-3-chloropropane	14.	U
120-82-1	1,2,4-Trichlorobenzene	14.	U
87-61-6	1,2,3-Trichlorobenzene	14.	U

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SOM01.2 (6/2007)

1J - FORM I VOA-TIC
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

J94T2

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026
 Lab Code: DATAc Case No.: 37584 Mod. Ref No.: _____ SDG No.: J94S6
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 8215001007
 Sample wt/vol: 1.87 (g/mL) g Lab File ID: SD19R007
 Level: (TRACE/LOW/MED) LOW Date Received: 08/02/2008
 % Moisture: not dec. 3.7 Date Analyzed: 08/11/2008
 GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
 CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01				
02				
03				
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26				
27				
28				
29				
30				
E966796 ¹	Total Alkanes	N/A		

¹EPA-designated Registry Number.

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1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J94T3

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026
 Lab Code: DATAC Case No.: 37584 Mod. Ref No.: SDG No.: J94S6
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 8215001008
 Sample wt/vol: 3.94 (g/mL) g Lab File ID: SD20R008
 Level: (TRACE/LOW/MED) LOW Date Received: 08/02/2008
 % Moisture: not dec. 9.2 Date Analyzed: 08/11/2008
 GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0
 Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)
 Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
75-71-8	Dichlorodifluoromethane	7.0	U
74-87-3	Chloromethane	7.0	U
75-01-4	Vinyl chloride	7.0	U
74-83-9	Bromomethane	7.0	U
75-00-3	Chloroethane	7.0	U
75-69-4	Trichlorofluoromethane	7.0	U
75-35-4	1,1-Dichloroethene	7.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	7.0	U
67-64-1	Acetone	14.	U
75-15-0	Carbon disulfide	7.0	U
79-20-9	Methyl acetate	7.0	U
75-09-2	Methylene chloride	7.0	U
156-60-5	trans-1,2-Dichloroethene	7.0	U
1634-04-4	Methyl tert-butyl ether	7.0	U
75-34-3	1,1-Dichloroethane	7.0	U
156-59-2	cis-1,2-Dichloroethene	7.0	U
78-93-3	2-Butanone	14.	U
74-97-5	Bromochloromethane	7.0	U
67-66-3	Chloroform	7.0	U
71-55-6	1,1,1-Trichloroethane	7.0	U
110-82-7	Cyclohexane	7.0	U
56-23-5	Carbon tetrachloride	7.0	U
71-43-2	Benzene	7.0	U
107-06-2	1,2-Dichloroethane	7.0	U
123-91-1	1,4-Dioxane	140	XR

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1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J94T3

Lab Name: DataChem Laboratories, Inc.

Contract: EP-W-05-026

Lab Code: DATAAC Case No.: 37584 Mod. Ref No.: _____ SDG No.: J94S6

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: 8215001008

Sample wt/vol: 3.94 (g/mL) g

Lab File ID: SD20R008

Level: (TRACE/LOW/MED) LOW

Date Received: 08/02/2008

% Moisture: not dec. 9.2

Date Analyzed: 08/11/2008

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
79-01-6	Trichloroethene	7.0	U
108-87-2	Methylcyclohexane	7.0	U
78-87-5	1,2-Dichloropropane	7.0	U
75-27-4	Bromodichloromethane	7.0	U
10061-01-5	cis-1,3-Dichloropropene	7.0	U
108-10-1	4-Methyl-2-Pentanone	14.	U
108-88-3	Toluene	7.0 0.57	± U
10061-02-6	trans-1,3-Dichloropropene	7.0	U
79-00-5	1,1,2-Trichloroethane	7.0	U
127-18-4	Tetrachloroethene	7.0	U
591-78-6	2-Hexanone	14.	U
124-48-1	Dibromochloromethane	7.0	U
106-93-4	1,2-Dibromoethane	7.0	U
108-90-7	Chlorobenzene	7.0	U
100-41-4	Ethylbenzene	7.0	U
95-47-6	o-Xylene	7.0	U
179601-23-1	m,p-Xylene	0.22	J
100-42-5	Styrene	7.0	U
75-25-2	Bromoform	7.0	U
98-82-8	Isopropylbenzene	7.0	U
79-34-5	1,1,2,2-Tetrachloroethane	7.0	U
541-73-1	1,3-Dichlorobenzene	7.0	U
106-46-7	1,4-Dichlorobenzene	7.0	U
95-50-1	1,2-Dichlorobenzene	7.0 0.55	± U
96-12-8	1,2-Dibromo-3-chloropropane	7.0	U
120-82-1	1,2,4-Trichlorobenzene	7.0	U
87-61-6	1,2,3-Trichlorobenzene	7.0	U

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SOM01.2 (6/2007)

1J - FORM I VOA-TIC
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

J94T3

Lab Name: DataChem Laboratories, Inc.

Contract: EP-W-05-026

Lab Code: DATA Case No.: 37584 Mod. Ref No.: _____ SDG No.: J94S6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 8215001008

Sample wt/vol: 3.94 (g/mL) g Lab File ID: SD20R008

Level: (TRACE/LOW/MED) LOW Date Received: 08/02/2008

% Moisture: not dec. 9.2 Date Analyzed: 08/11/2008

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01				
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
E966796 ¹	Total Alkanes	N/A		

¹EPA-designated Registry Number.

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9/24/08

SOM01.2 (6/2007)

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J94T4

Lab Name: DataChem Laboratories, Inc.

Contract: EP-W-05-026

Lab Code: DATAC Case No.: 37584 Mod. Ref No.: _____ SDG No.: J94S6

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: 8215001011

Sample wt/vol: 2.76 (g/mL) g

Lab File ID: SD23R011

Level: (TRACE/LOW/MED) LOW

Date Received: 08/02/2008

% Moisture: not dec. 2.9

Date Analyzed: 08/11/2008

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
75-71-8	Dichlorodifluoromethane	9.3	U
74-87-3	Chloromethane	9.3	U
75-01-4	Vinyl chloride	9.3	U
74-83-9	Bromomethane	9.3	U
75-00-3	Chloroethane	9.3	U
75-69-4	Trichlorofluoromethane	9.3	U
75-35-4	1,1-Dichloroethene	9.3	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	9.3	U
67-64-1	Acetone	19.	UT
75-15-0	Carbon disulfide	9.3	U
79-20-9	Methyl acetate	9.3	U
75-09-2	Methylene chloride	12.	B
156-60-5	trans-1,2-Dichloroethene	9.3	U
1634-04-4	Methyl tert-butyl ether	9.3	U
75-34-3	1,1-Dichloroethane	9.3	U
156-59-2	cis-1,2-Dichloroethene	9.3	U
78-93-3	2-Butanone	19.	U
74-97-5	Bromochloromethane	9.3	U
67-66-3	Chloroform	9.3	U
71-55-6	1,1,1-Trichloroethane	9.3	U
110-82-7	Cyclohexane	9.3	U
56-23-5	Carbon tetrachloride	9.3	U
71-43-2	Benzene	4.9	JQ
107-06-2	1,2-Dichloroethane	9.3	U
123-91-1	1,4-Dioxane	190	BR

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1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J94T4

Lab Name: DataChem Laboratories, Inc.

Contract: EP-W-05-026

Lab Code: DATA Case No.: 37584 Mod. Ref No.: _____ SDG No.: J94S6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 8215001011

Sample wt/vol: 2.76 (g/mL) g Lab File ID: SD23R011

Level: (TRACE/LOW/MED) LOW Date Received: 08/02/2008

% Moisture: not dec. 2.9 Date Analyzed: 08/11/2008

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
79-01-6	Trichloroethene	9.3	U
108-87-2	Methylcyclohexane	9.3	U
78-87-5	1,2-Dichloropropane	9.3	U
75-27-4	Bromodichloromethane	9.3	U
10061-01-5	cis-1,3-Dichloropropene	9.3	U
108-10-1	4-Methyl-2-Pentanone	19.	U
108-88-3	Toluene	26.	
10061-02-6	trans-1,3-Dichloropropene	9.3	U
79-00-5	1,1,2-Trichloroethane	9.3	U
127-18-4	Tetrachloroethene	9.3	U
591-78-6	2-Hexanone	19.	U
124-48-1	Dibromochloromethane	9.3	U
106-93-4	1,2-Dibromoethane	9.3	U
108-90-7	Chlorobenzene	9.3	U
100-41-4	Ethylbenzene	3.6	J
95-47-6	o-Xylene	3.9	J
179601-23-1	m,p-Xylene	11.	
100-42-5	Styrene	9.3	U
75-25-2	Bromoform	9.3	U
98-82-8	Isopropylbenzene	9.3	U
79-34-5	1,1,2,2-Tetrachloroethane	9.3	U
541-73-1	1,3-Dichlorobenzene	9.3	U
106-46-7	1,4-Dichlorobenzene	0.26	J
95-50-1	1,2-Dichlorobenzene	9.3 0.51	J U
96-12-8	1,2-Dibromo-3-chloropropane	9.3	U
120-82-1	1,2,4-Trichlorobenzene	9.3	U
87-61-6	1,2,3-Trichlorobenzene	9.3	U

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SOM01.2 (6/2007)

1J - FORM I VOA-TIC
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

J94T4

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026
 Lab Code: DATAC Case No.: 37584 Mod. Ref No.: _____ SDG No.: J94S6
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 8215001011
 Sample wt/vol: 2.76 (g/mL) g Lab File ID: SD23R011
 Level: (TRACE/LOW/MED) LOW Date Received: 08/02/2008
 % Moisture: not dec. 2.9 Date Analyzed: 08/11/2008
 GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
 CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01				
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
E966796 ¹	Total Alkanes	N/A		

¹EPA-designated Registry Number.

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1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J94T5

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026
 Lab Code: DATA Case No.: 37584 Mod. Ref No.: SDG No.: J94S6
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 8215001012
 Sample wt/vol: 2.51 (g/mL) g Lab File ID: SD25R012
 Level: (TRACE/LOW/MED) LOW Date Received: 08/02/2008
 % Moisture: not dec. 3.9 Date Analyzed: 08/11/2008
 GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0
 Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)
 Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
75-71-8	Dichlorodifluoromethane	10.	U
74-87-3	Chloromethane	10.	U
75-01-4	Vinyl chloride	10.	U
74-83-9	Bromomethane	10.	U
75-00-3	Chloroethane	10.	U
75-69-4	Trichlorofluoromethane	10.20	✓U
75-35-4	1,1-Dichloroethene	10.	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10.	U
67-64-1	Acetone	21.	UJ
75-15-0	Carbon disulfide	10.	U
79-20-9	Methyl acetate	10.	U
75-09-2	Methylene chloride	28.	✓
156-60-5	trans-1,2-Dichloroethene	10.	U
1634-04-4	Methyl tert-butyl ether	10.	U
75-34-3	1,1-Dichloroethane	10.	U
156-59-2	cis-1,2-Dichloroethene	10.	U
78-93-3	2-Butanone	21.	U
74-97-5	Bromoform	10.	U
67-66-3	Chloroform	10.	U
71-55-6	1,1,1-Trichloroethane	10.	U
110-82-7	Cyclohexane	10.	U
56-23-5	Carbon tetrachloride	10.	U
71-43-2	Benzene	4.1	JQ
107-06-2	1,2-Dichloroethane	10.	U
123-91-1	1,4-Dioxane	210	VR

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1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J94T5

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026
 Lab Code: DATAAC Case No.: 37584 Mod. Ref No.: SDG No.: J94S6
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 8215001012
 Sample wt/vol: 2.51 (g/mL) g Lab File ID: SD25R012
 Level: (TRACE/LOW/MED) LOW Date Received: 08/02/2008
 % Moisture: not dec. 3.9 Date Analyzed: 08/11/2008
 GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0
 Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)
 Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
79-01-6	Trichloroethene	10.	U
108-87-2	Methylcyclohexane	10.	U
78-87-5	1,2-Dichloropropane	10.	U
75-27-4	Bromodichloromethane	10.	U
10061-01-5	cis-1,3-Dichloropropene	10.	U
108-10-1	4-Methyl-2-Pentanone	21.	U
108-88-3	Toluene	23.	
10061-02-6	trans-1,3-Dichloropropene	10.	U
79-00-5	1,1,2-Trichloroethane	10.	U
127-18-4	Tetrachloroethene	0.29	J Q
591-78-6	2-Hexanone	21.	U
124-48-1	Dibromochloromethane	10.	U
106-93-4	1,2-Dibromoethane	10.	U
108-90-7	Chlorobenzene	10.	U
100-41-4	Ethylbenzene	3.3	J Q
95-47-6	o-Xylene	3.5	J Q
179601-23-1	m,p-Xylene	9.6	J Q
100-42-5	Styrene	10.	U
75-25-2	Bromoform	10.	U
98-82-8	Isopropylbenzene	10.	U
79-34-5	1,1,2,2-Tetrachloroethane	10.	U
541-73-1	1,3-Dichlorobenzene	10.	U
106-46-7	1,4-Dichlorobenzene	0.42	J Q
95-50-1	1,2-Dichlorobenzene	10. 0.44	J U
96-12-8	1,2-Dibromo-3-chloropropane	10.	U
120-82-1	1,2,4-Trichlorobenzene	10.	U
87-61-6	1,2,3-Trichlorobenzene	10.	U

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1J - FORM I VOA-TIC
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

J94T5

Lab Name: <u>DataChem Laboratories, Inc.</u>	Contract: <u>EP-W-05-026</u>		
Lab Code: <u>DATAc</u>	Case No.: <u>37584</u>	Mod. Ref No.: _____	SDG No.: <u>J94S6</u>
Matrix: (SOIL/SED/WATER) <u>SOIL</u>	Lab Sample ID: <u>8215001012</u>		
Sample wt/vol: <u>2.51</u> (g/mL) <u>g</u>	Lab File ID: <u>SD25R012</u>		
Level: (TRACE/LOW/MED) <u>LOW</u>	Date Received: <u>08/02/2008</u>		
% Moisture: not dec. <u>3.9</u>	Date Analyzed: <u>08/11/2008</u>		
GC Column: <u>DB624</u>	<u>ID: 0.53</u>	(mm)	Dilution Factor: <u>1.0</u>
Soil Extract Volume: _____	(uL)	Soil Aliquot Volume: _____	(uL)
CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/kg</u>	Purge Volume: <u>10.0</u> (mL)		

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01				
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
E966796 ¹	Total Alkanes	N/A		

¹EPA-designated Registry Number.

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SOM01.2 (6/2007)

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J94T6

Lab Name: DataChem Laboratories, Inc.

Contract: EP-W-05-026

Lab Code: DATAC Case No.: 37584 Mod. Ref No.: SDG No.: J94S6

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: 8215001013

Sample wt/vol: 4.41 (g/mL) g

Lab File ID: SD26R013

Level: (TRACE/LOW/MED) LOW

Date Received: 08/02/2008

* Moisture: not dec. 11.

Date Analyzed: 08/11/2008

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
75-71-8	Dichlorodifluoromethane	6.4	U
74-87-3	Chloromethane	6.4	U
75-01-4	Vinyl chloride	6.4	U
74-83-9	Bromomethane	6.4	U
75-00-3	Chloroethane	6.4	U
75-69-4	Trichlorofluoromethane	6.4	ZU
75-35-4	1,1-Dichloroethene	6.4	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	6.4	U
67-64-1	Acetone	18.	J
75-15-0	Carbon disulfide	0.31	JQ
79-20-9	Methyl acetate	6.4	U
75-09-2	Methylene chloride	8.5	X
156-60-5	trans-1,2-Dichloroethene	6.4	U
1634-04-4	Methyl tert-butyl ether	6.4	U
75-34-3	1,1-Dichloroethane	6.4	U
156-59-2	cis-1,2-Dichloroethene	6.4	U
78-93-3	2-Butanone	6.2	JQ
74-97-5	Bromochloromethane	6.4	U
67-66-3	Chloroform	6.4	U
71-55-6	1,1,1-Trichloroethane	6.4	U
110-82-7	Cyclohexane	6.4	U
56-23-5	Carbon tetrachloride	6.4	U
71-43-2	Benzene	1.4	JQ
107-06-2	1,2-Dichloroethane	6.4	U
123-91-1	1,4-Dioxane	130	XR

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1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J94T6

Lab Name: DataChem Laboratories, Inc.

Contract: EP-W-05-026

Lab Code: DATA C Case No.: 37584 Mod. Ref No.: _____ SDG No.: J94S6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 8215001013

Sample wt/vol: 4.41 (g/mL) g Lab File ID: SD26R013

Level: (TRACE/LOW/MED) LOW Date Received: 08/02/2008

% Moisture: not dec. 11. Date Analyzed: 08/11/2008

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
79-01-6	Trichloroethene	6.4	U
108-87-2	Methylcyclohexane	6.4	U
78-87-5	1,2-Dichloropropane	6.4	U
75-27-4	Bromodichloromethane	6.4	U
10061-01-5	cis-1,3-Dichloropropene	6.4	U
108-10-1	4-Methyl-2-Pentanone	13.	U
108-88-3	Toluene	6.4 5.0	J U
10061-02-6	trans-1,3-Dichloropropene	6.4	U
79-00-5	1,1,2-Trichloroethane	6.4	U
127-18-4	Tetrachloroethene	0.16	J Q
591-78-6	2-Hexanone	13.	U
124-48-1	Dibromochloromethane	6.4	U
106-93-4	1,2-Dibromoethane	6.4	U
108-90-7	Chlorobenzene	6.4	U
100-41-4	Ethylbenzene	0.88	J Q
95-47-6	o-Xylene	1.2	J Q
179601-23-1	m,p-Xylene	3.3	J Q
100-42-5	Styrene	6.4	U
75-25-2	Bromoform	6.4	U
98-82-8	Isopropylbenzene	6.4	U
79-34-5	1,1,2,2-Tetrachloroethane	6.4	U
541-73-1	1,3-Dichlorobenzene	6.4	U
106-46-7	1,4-Dichlorobenzene	0.53	J Q
95-50-1	1,2-Dichlorobenzene	6.4 0.27	J U
96-12-8	1,2-Dibromo-3-Chloropropane	6.4	U
120-82-1	1,2,4-Trichlorobenzene	6.4	U
87-61-6	1,2,3-Trichlorobenzene	6.4	U

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SOM01.2 (6/2007)

1J - FORM I VOA-TIC
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

J94T6

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026
 Lab Code: DATAAC Case No.: 37584 Mod. Ref No.: _____ SDG No.: J94S6
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 8215001013
 Sample wt/vol: 4.41 (g/mL) g Lab File ID: SD26R013
 Level: (TRACE/LOW/MED) LOW Date Received: 08/02/2008
 % Moisture: not dec. 11. Date Analyzed: 08/11/2008
 GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
 CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01 106-68-3	3-Octanone	16.18	29.	JN
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
E966796 ¹	Total Alkanes	N/A		

¹EPA-designated Registry Number.

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 SOM01.2 (6/2007)

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J94T7

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026
 Lab Code: DATAC Case No.: 37584 Mod. Ref No.: SDG No.: J94S6
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 8215001014
 Sample wt/vol: 3.94 (g/mL) g Lab File ID: SC95C014
 Level: (TRACE/LOW/MED) LOW Date Received: 08/02/2008
 % Moisture: not dec. 17. Date Analyzed: 08/08/2008
 GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0
 Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)
 Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
75-71-8	Dichlorodifluoromethane	7.6	U
74-87-3	Chloromethane	7.6	U
75-01-4	Vinyl chloride	7.6	U
74-83-9	Bromomethane	7.6	U
75-00-3	Chloroethane	7.6	U
75-69-4	Trichlorofluoromethane	7.60.55	JL
75-35-4	1,1-Dichloroethene	7.6	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	7.6	U
67-64-1	Acetone	15.	U
75-15-0	Carbon disulfide	7.6	U
79-20-9	Methyl acetate	7.6	U
75-09-2	Methylene chloride	7.62.4	JBÜ
156-60-5	trans-1,2-Dichloroethene	7.6	U
1634-04-4	Methyl tert-butyl ether	7.6	U
75-34-3	1,1-Dichloroethane	7.6	U
156-59-2	cis-1,2-Dichloroethene	7.6	U
78-93-3	2-Butanone	15.	UT
74-97-5	Bromochloromethane	7.6	U
67-66-3	Chloroform	7.6	U
71-55-6	1,1,1-Trichloroethane	7.6	U
110-82-7	Cyclohexane	7.6	U
56-23-5	Carbon tetrachloride	7.6	U
71-43-2	Benzene	7.6	U
107-06-2	1,2-Dichloroethane	7.6	U
123-91-1	1,4-Dioxane	150	XK

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1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J94T7

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026
 Lab Code: DATAC Case No.: 37584 Mod. Ref No.: SDG No.: J94S6
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 8215001014
 Sample wt/vol: 3.94 (g/mL) g Lab File ID: SC95C014
 Level: (TRACE/LOW/MED) LOW Date Received: 08/02/2008
 % Moisture: not dec. 17. Date Analyzed: 08/08/2008
 GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0
 Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)
 Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
79-01-6	Trichloroethene	7.6	U
108-87-2	Methylcyclohexane	7.6	U
78-87-5	1,2-Dichloropropane	7.6	U
75-27-4	Bromodichloromethane	7.6	U
10061-01-5	cis-1,3-Dichloropropene	7.6	U
108-10-1	4-Methyl-2-Pentanone	15.	U
108-88-3	Toluene	7.6 e-06	± U
10061-02-6	trans-1,3-Dichloropropene	7.6	U
79-00-5	1,1,2-Trichloroethane	7.6	U
127-18-4	Tetrachloroethene	7.6	U
591-78-6	2-Hexanone	15.	UI
124-48-1	Dibromochloromethane	7.6	U
106-93-4	1,2-Dibromoethane	7.6	U
108-90-7	Chlorobenzene	7.6	U
100-41-4	Ethylbenzene	7.6	U
95-47-6	o-Xylene	7.6	U
179601-23-1	m,p-Xylene	0.26	J Q
100-42-5	Styrene	7.6	U
75-25-2	Bromoform	7.6	U
98-82-8	Isopropylbenzene	7.6	U
79-34-5	1,1,2,2-Tetrachloroethane	7.6	U
541-73-1	1,3-Dichlorobenzene	7.6	U
106-46-7	1,4-Dichlorobenzene	0.17	J Q
95-50-1	1,2-Dichlorobenzene	7.6 e-07	± U
96-12-8	1,2-Dibromo-3-chloropropane	7.6	U
120-82-1	1,2,4-Trichlorobenzene	7.6	U
87-61-6	1,2,3-Trichlorobenzene	7.6	U

IJ - FORM I VOA-TIC
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

J94T7

Lab Name: <u>DataChem Laboratories, Inc.</u>	Contract: <u>EP-W-05-026</u>		
Lab Code: <u>DATAAC</u>	Case No.: <u>37584</u>	Mod. Ref No.: _____	SDG No.: <u>J94S6</u>
Matrix: (SOIL/SED/WATER) <u>SOIL</u>	Lab Sample ID: <u>8215001014</u>		
Sample wt/vol: <u>3.94</u> (g/mL) <u>g</u>	Lab File ID: <u>SC95C014</u>		
Level: (TRACE/LOW/MED) <u>LOW</u>	Date Received: <u>08/02/2008</u>		
% Moisture: not dec. <u>17.</u>	Date Analyzed: <u>08/08/2008</u>		
GC Column: <u>DB624</u>	<u>ID: 0.53</u>	(mm)	Dilution Factor: <u>1.0</u>
Soil Extract Volume: _____	(uL)	Soil Aliquot Volume: _____	(uL)
CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/kg</u>			
Purge Volume: <u>10.0</u> (mL)			

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01				
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
E966796 ¹	Total Alkanes	N/A		

¹EPA-designated Registry Number.

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REPORT

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J94T8

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026

Lab Code: DATAC Case No.: 37584 Mod. Ref No.: SDG No.: J94S6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 8215001015

Sample wt/vol: 2.83 (g/mL) g Lab File ID: SC96C015

Level: (TRACE/LOW/MED) LOW Date Received: 08/02/2008

* Moisture: not dec. 4.2 Date Analyzed: 08/08/2008

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
75-71-8	Dichlorodifluoromethane	9.2	U
74-87-3	Chloromethane	9.2	U
75-01-4	Vinyl chloride	9.2	U
74-83-9	Bromomethane	9.2	U
75-00-3	Chloroethane	9.2	U
75-69-4	Trichlorofluoromethane	9.214	JU
75-35-4	1,1-Dichloroethene	9.2	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	9.2	U
67-64-1	Acetone	18.	U
75-15-0	Carbon disulfide	9.2	U
79-20-9	Methyl acetate	9.2	U
75-09-2	Methylene chloride	17.	J
156-60-5	trans-1,2-Dichloroethene	9.2	U
1634-04-4	Methyl tert-butyl ether	9.2	U
75-34-3	1,1-Dichloroethane	9.2	U
156-59-2	cis-1,2-Dichloroethene	9.2	U
78-93-3	2-Butanone	18.	UJ
74-97-5	Bromochloromethane	9.2	U
67-66-3	Chloroform	9.2	U
71-55-6	1,1,1-Trichloroethane	9.2	U
110-82-7	Cyclohexane	9.2	U
56-23-5	Carbon tetrachloride	9.2	U
71-43-2	Benzene	6.4	J
107-06-2	1,2-Dichloroethane	9.2	U
123-91-1	1,4-Dioxane	180	JR


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1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J94T8

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026
 Lab Code: DATAC Case No.: 37584 Mod. Ref No.: _____ SDG No.: J94S6
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 8215001015
 Sample wt/vol: 2.83 (g/mL) g Lab File ID: SC96C015
 Level: (TRACE/LOW/MED) LOW Date Received: 08/02/2008
 % Moisture: not dec. 4.2 Date Analyzed: 08/08/2008
 GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
 Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
79-01-6	Trichloroethene	9.2	U
108-87-2	Methylcyclohexane	9.2	U
78-87-5	1,2-Dichloropropane	9.2	U
75-27-4	Bromodichloromethane	9.2	U
10061-01-5	cis-1,3-Dichloropropene	9.2	U
108-10-1	4-Methyl-2-Pentanone	18.	U
108-88-3	Toluene	28.	
10061-02-6	trans-1,3-Dichloropropene	9.2	U
79-00-5	1,1,2-Trichloroethane	9.2	U
127-18-4	Tetrachloroethene	0.23	J Q
591-78-6	2-Hexanone	18.	U J
124-48-1	Dibromochloromethane	9.2	U
106-93-4	1,2-Dibromoethane	9.2	U
108-90-7	Chlorobenzene	9.2	U
100-41-4	Ethylbenzene	3.4	J Q
95-47-6	o-Xylene	3.7	J Q
179601-23-1	m,p-Xylene	9.5	
100-42-5	Styrene	9.2	U
75-25-2	Bromoform	9.2	U J
98-82-8	Isopropylbenzene	9.2	U
79-34-5	1,1,2,2-Tetrachloroethane	9.2	U
541-73-1	1,3-Dichlorobenzene	9.2	U J
106-46-7	1,4-Dichlorobenzene	0.28	J Q
95-50-1	1,2-Dichlorobenzene	9.2 0.64	J U
96-12-8	1,2-Dibromo-3-chloropropane	9.2	U J
120-82-1	1,2,4-Trichlorobenzene	9.2	U J
87-61-6	1,2,3-Trichlorobenzene	9.2	U J

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1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

J94T8

Lab Name: <u>DataChem Laboratories, Inc.</u>	Contract: <u>EP-W-05-026</u>
Lab Code: <u>DATA C</u>	Case No.: <u>37584</u> Mod. Ref No.: _____ SDG No.: <u>J94S6</u>
Matrix: <u>(SOIL/SED/WATER) SOIL</u>	Lab Sample ID: <u>8215001015</u>
Sample wt/vol: <u>2.83</u> (g/mL) g	Lab File ID: <u>SC96C015</u>
Level: <u>(TRACE/LOW/MED) LOW</u>	Date Received: <u>08/02/2008</u>
% Moisture: not dec. <u>4.2</u>	Date Analyzed: <u>08/08/2008</u>
GC Column: <u>DB624</u> ID: <u>0.53</u> (mm)	Dilution Factor: <u>1.0</u>
Soil Extract Volume: _____ (uL)	Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/kg</u>	Purge Volume: <u>10.0</u> (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01				
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
E966796 ¹	Total Alkanes		N/A	

¹EPA-designated Registry Number.

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1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

Do NOT REPORT

EPA SAMPLE NO.

J94T8RE

Lab Name: DataChem Laboratories, Inc.

Contract: EP-W-05-026

Lab Code: DATAC Case No.: 37584 Mod. Ref No.: _____ SDG No.: J94S6

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: 8215001015RE

Sample wt/vol: 2.55 (g/mL) a

Lab File ID: SD04R015

Level: (TRACE/LOW/MED) LOW

Date Received: 08/02/2008

% Moisture: not dec. 4.2

Date Analyzed: 08/08/2008

GC Column: DB624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
75-71-8	Dichlorodifluoromethane	10.	U
74-87-3	Chloromethane	10.	U
75-01-4	Vinyl chloride	10.	U
74-83-9	Bromomethane	10.	U
75-00-3	Chloroethane	10.	U
75-69-4	Trichlorofluoromethane	10	± U
75-35-4	1,1-Dichloroethene	10.	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10.	U
67-64-1	Acetone	20.	U
75-15-0	Carbon disulfide	0.70	J
79-20-9	Methyl acetate	10.	U
75-09-2	Methylene chloride	38.	B
156-60-5	trans-1,2-Dichloroethene	10.	U
1634-04-4	Methyl tert-butyl ether	10.	U
75-34-3	1,1-Dichloroethane	10.	U
156-59-2	cis-1,2-Dichloroethene	10.	U
78-93-3	2-Butanone	20.	U
74-97-5	Bromochloromethane	10.	U
67-66-3	Chloroform	10.	U
71-55-6	1,1,1-Trichloroethane	10.	U
110-82-7	Cyclohexane	10.	U
56-23-5	Carbon tetrachloride	10.	U
71-43-2	Benzene	14.	
107-06-2	1,2-Dichloroethane	10.	U
123-91-1	1,4-Dioxane	200	U

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1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J94T8RE

Lab Name: DataChem Laboratories, Inc.
 Lab Code: DATAAC Case No.: 37584 Mod. Ref No.: SDG No.: J94S6
 Matrix: (SOIL/SED/WATER) SOIL
 Sample wt/vol: 2.55 (g/mL) g
 Level: (TRACE/LOW/MED) LOW
 % Moisture: not dec. 4.2
 GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0
 Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)
 Purge Volume: 10.0 (mL)

Contract: EP-W-05-026
 Lab Sample ID: 8215001015RE
 Lab File ID: SD04R015
 Date Received: 08/02/2008
 Date Analyzed: 08/08/2008
 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
79-01-6	Trichloroethene	10.	U
108-87-2	Methylcyclohexane	10.	U
78-87-5	1,2-Dichloropropane	10.	U
75-27-4	Bromodichloromethane	10.	U
10061-01-5	cis-1,3-Dichloropropene	10.	U
108-10-1	4-Methyl-2-Pentanone	20.	U
108-88-3	Toluene	97.	
10061-02-6	trans-1,3-Dichloropropene	10.	U
79-00-5	1,1,2-Trichloroethane	10.	U
127-18-4	Tetrachloroethene	10.	U
591-78-6	2-Hexanone	20.	U
124-48-1	Dibromochloromethane	10.	U
106-93-4	1,2-Dibromoethane	10.	U
108-90-7	Chlorobenzene	10.	U
100-41-4	Ethylbenzene	13.	
95-47-6	o-Xylene	16.	
179601-23-1	m,p-Xylene	41.	
100-42-5	Styrene	10.	U
75-25-2	Bromoform	10.	U
98-82-8	Isopropylbenzene	10.	U
79-34-5	1,1,2,2-Tetrachloroethane	10.	U
541-73-1	1,3-Dichlorobenzene	10.	U
106-46-7	1,4-Dichlorobenzene	1.2	JQ
95-50-1	1,2-Dichlorobenzene	10.	U
96-12-8	1,2-Dibromo-3-chloropropane	10.	U
120-82-1	1,2,4-Trichlorobenzene	10.	U
87-61-6	1,2,3-Trichlorobenzene	10.	U

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1J - FORM I VOA-TIC
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

J94T8RE

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026
 Lab Code: DATA Case No.: 37584 Mod. Ref No.: _____ SDG No.: J94S6
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 8215001015RE
 Sample wt/vol: 2.55 (g/mL) a Lab File ID: SD04R015
 Level: (TRACE/LOW/MED) LOW Date Received: 08/02/2008
 % Moisture: not dec. 4.2 Date Analyzed: 08/08/2008
 GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
 CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01 611-14-3	Benzene, 1-ethyl-2-methyl-	15.52	32.	JN
02 95-63-6	Benzene, 1,2,4-trimethyl-	16.22	18.	JN
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
E966796 ¹	Total Alkanes	N/A		

¹ EPA-designated Registry Number.

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1A - FORM I VOA-1 **REPORT**
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J94T9

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026
 Lab Code: DATAc Case No.: 37584 Mod. Ref No.: SDG No.: J94S6
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 8215001016
 Sample wt/vol: 2.67 (g/mL) g Lab File ID: SC97C016
 Level: (TRACE/LOW/MED) LOW Date Received: 08/02/2008
 % Moisture: not dec. 11. Date Analyzed: 08/08/2008
 GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0
 Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)
 Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
75-71-8	Dichlorodifluoromethane	10.	U
74-87-3	Chloromethane	10.	U
75-01-4	Vinyl chloride	10.	U
74-83-9	Bromomethane	10.	U
75-00-3	Chloroethane	10.	U
75-69-4	Trichlorodifluoromethane	10	25 U
75-35-4	1,1-Dichloroethene	10.	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10.	U
67-64-1	Acetone	21.	U
75-15-0	Carbon disulfide	10.	U
79-20-9	Methyl acetate	10.	U
75-09-2	Methylene chloride	23.	✓
156-60-5	trans-1,2-Dichloroethene	10.	U
1634-04-4	Methyl tert-butyl ether	10.	U
75-34-3	1,1-Dichloroethane	10.	U
156-59-2	cis-1,2-Dichloroethene	10.	U
78-93-3	2-Butanone	21.	UI
74-97-5	Bromoform	10.	U
67-66-3	Chloroform	10.	U
71-55-6	1,1,1-Trichloroethane	10.	U
110-82-7	Cyclohexane	10.	U
56-23-5	Carbon tetrachloride	10.	U
71-43-2	Benzene	5.3	J
107-06-2	1,2-Dichloroethane	10.	U
123-91-1	1,4-Dioxane	210	✓R

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1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J94T9

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026
 Lab Code: DATAC Case No.: 37584 Mod. Ref No.: SDG No.: J94S6
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 8215001016
 Sample wt/vol: 2.67 (g/mL) g Lab File ID: SC97C016
 Level: (TRACE/LOW/MED) LOW Date Received: 08/02/2008
 % Moisture: not dec. 11. Date Analyzed: 08/08/2008
 GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0
 Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)
 Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
79-01-6	Trichloroethene	10.	U
108-87-2	Methylcyclohexane	10.	U
78-87-5	1,2-Dichloropropane	10.	U
75-27-4	Bromodichloromethane	10.	U
10061-01-5	cis-1,3-Dichloropropene	10.	U
108-10-1	4-Methyl-2-Pentanone	21.	U
108-88-3	Toluene	15.	
10061-02-6	trans-1,3-Dichloropropene	10.	U
79-00-5	1,1,2-Trichloroethane	10.	U
127-18-4	Tetrachloroethene	0.75	J Q
591-78-6	2-Hexanone	21.	U J
124-48-1	Dibromochloromethane	10.	U
106-93-4	1,2-Dibromoethane	10.	U
108-90-7	Chlorobenzene	10.	U
100-41-4	Ethylbenzene	1.5	J Q
95-47-6	o-Xylene	1.2	J Q
179601-23-1	m,p-Xylene	3.5	J Q
100-42-5	Styrene	10.	U
75-25-2	Bromoform	10.	U J
98-82-8	Isopropylbenzene	10.	U
79-34-5	1,1,2,2-Tetrachloroethane	10.	U
541-73-1	1,3-Dichlorobenzene	10.	U J
106-46-7	1,4-Dichlorobenzene	10.	U J
95-50-1	1,2-Dichlorobenzene	10.	J U
96-12-8	1,2-Dibromo-3-chloropropane	10.	U J
120-82-1	1,2,4-Trichlorobenzene	10.	U J
87-61-6	1,2,3-Trichlorobenzene	10.	U J

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1J - FORM I VOA-TIC
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

J94T9

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026
 Lab Code: DATAAC Case No.: 37584 Mod. Ref No.: SDG No.: J94S6
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 8215001016
 Sample wt/vol: 2.67 (g/mL) g Lab File ID: SC97C016
 Level: (TRACE/LOW/MED) LOW Date Received: 08/02/2008
 % Moisture: not dec. 11. Date Analyzed: 08/08/2008
 GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0
 Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)
 CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01				
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
E966796 ¹	Total Alkanes	N/A		

¹EPA-designated Registry Number.

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 SOM01.2 (6/2007)

1A - FORM I VOA-1 **Do NOT REPORT**
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J94T9RE

Lab Name: DataChem Laboratories, Inc.

Contract: EP-W-05-026

Lab Code: DATAC Case No.: 37584 Mod. Ref No.: SDG No.: J94S6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 8215001016RE

Sample wt/vol: 3.06 (g/mL) g

Lab File ID: SD05R016

Level: (TRACE/LOW/MED) LOW

Date Received: 08/02/2008

* Moisture: not dec. 11.

Date Analyzed: 08/08/2008

GC Column: DB624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
75-71-8	Dichlorodifluoromethane	9.1	U
74-87-3	Chloromethane	9.1	U
75-01-4	Vinyl chloride	9.1	U
74-83-9	Bromomethane	9.1	U
75-00-3	Chloroethane	9.1	U
75-69-4	Trichlorofluoromethane	9.1±0	±0
75-35-4	1,1-Dichloroethene	9.1	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	9.1	U
67-64-1	Acetone	18.	U
75-15-0	Carbon disulfide	9.1	U
79-20-9	Methyl acetate	9.1	U
75-09-2	Methylene chloride	39.	✓
156-60-5	trans-1,2-Dichloroethene	9.1	U
1634-04-4	Methyl tert-butyl ether	9.1	U
75-34-3	1,1-Dichloroethane	9.1	U
156-59-2	cis-1,2-Dichloroethene	9.1	U
78-93-3	2-Butanone	18.	U
74-97-5	Bromochloromethane	9.1	U
67-66-3	Chloroform	9.1	U
71-55-6	1,1,1-Trichloroethane	9.1	U
110-82-7	Cyclohexane	9.1	U
56-23-5	Carbon tetrachloride	9.1	U
71-43-2	Benzene	9.2	
107-06-2	1,2-Dichloroethane	9.1	U
123-91-1	1,4-Dioxane	180	U

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1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J94T9RE

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026
 Lab Code: DATAAC Case No.: 37584 Mod. Ref No.: _____ SDG No.: J94S6
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 8215001016RE
 Sample wt/vol: 3.06 (g/mL) g Lab File ID: SD05R016
 Level: (TRACE/LOW/MED) LOW Date Received: 08/02/2008
 % Moisture: not dec. 11. Date Analyzed: 08/08/2008
 GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
 Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
79-01-6	Trichloroethene	9.1	U
108-87-2	Methylcyclohexane	9.1	U
78-87-5	1,2-Dichloropropane	9.1	U
75-27-4	Bromodichloromethane	9.1	U
10061-01-5	cis-1,3-Dichloropropene	9.1	U
108-10-1	4-Methyl-2-Pentanone	18.	U
108-88-3	Toluene	31.	
10061-02-6	trans-1,3-Dichloropropene	9.1	U
79-00-5	1,1,2-Trichloroethane	9.1	U
127-18-4	Tetrachloroethene	0.61	J Q
591-78-6	2-Hexanone	18.	U
124-48-1	Dibromochloromethane	9.1	U
106-93-4	1,2-Dibromoethane	9.1	U
108-90-7	Chlorobenzene	9.1	U
100-41-4	Ethylbenzene	3.3	J Q
95-47-6	o-Xylene	3.5	J Q
179601-23-1	m,p-Xylene	9.6	
100-42-5	Styrene	9.1	U
75-25-2	Bromoform	9.1	U
98-82-8	Isopropylbenzene	9.1	U
79-34-5	1,1,2,2-Tetrachloroethane	9.1	U
541-73-1	1,3-Dichlorobenzene	9.1	U
106-46-7	1,4-Dichlorobenzene	9.1	U
95-50-1	1,2-Dichlorobenzene	9.1 2.0	J U
96-12-8	1,2-Dibromo-3-chloropropane	9.1	U
120-82-1	1,2,4-Trichlorobenzene	9.1	U
87-61-6	1,2,3-Trichlorobenzene	9.1	U

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1J - FORM I VOA-TIC
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

J94T9RE

Lab Name: <u>DataChem Laboratories, Inc.</u>	Contract: <u>EP-W-05-026</u>		
Lab Code: <u>DATAC</u>	Case No.: <u>37584</u>	Mod. Ref No.: _____	SDG No.: <u>J94S6</u>
Matrix: (SOIL/SED/WATER) <u>SOIL</u>	Lab Sample ID: <u>8215001016RE</u>		
Sample wt/vol: <u>3.06</u> (g/mL) <u>g</u>	Lab File ID: <u>SD05R016</u>		
Level: (TRACE/LOW/MED) <u>LOW</u>	Date Received: <u>08/02/2008</u>		
% Moisture: not dec. <u>11.</u>	Date Analyzed: <u>08/08/2008</u>		
GC Column: <u>DB624</u>	ID: <u>0.53</u>	(mm)	Dilution Factor: <u>1.0</u>
Soil Extract Volume: _____	(uL)	Soil Aliquot Volume: _____	(uL)
CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/kg</u>		Purge Volume: <u>10.0</u> (mL)	

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01 143-08-8	1-Nonanol	17.07	12.	JN
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
E966796 ¹	Total Alkanes	N/A		

¹EPA-designated Registry Number.

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 SOM01.2 (6/2007)

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J94W0

Lab Name: <u>DataChem Laboratories, Inc.</u>	Contract: <u>EP-W-05-026</u>		
Lab Code: <u>DATAC</u>	Case No.: <u>37584</u>	Mod. Ref No.: _____	SDG No.: <u>J94S6</u>
Matrix: <u>(SOIL/SED/WATER) SOIL</u>	Lab Sample ID: <u>8215001017</u>		
Sample wt/vol: <u>2.56</u> (g/mL) <u>g</u>	Lab File ID: <u>SC98C017</u>		
Level: <u>(TRACE/LOW/MED) LOW</u>	Date Received: <u>08/02/2008</u>		
% Moisture: not dec. <u>18</u> .	Date Analyzed: <u>08/08/2008</u>		
GC Column: <u>DB624</u>	<u>ID: 0.53</u>	(mm)	Dilution Factor: <u>1.0</u>
Soil Extract Volume: _____	(uL)	Soil Aliquot Volume: _____ (uL)	
Purge Volume: <u>10.0</u>	(mL)		

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
75-71-8	Dichlorodifluoromethane	12.	U
74-87-3	Chloromethane	12.	U
75-01-4	Vinyl chloride	12.	U
74-83-9	Bromomethane	12.	U
75-00-3	Chloroethane	12.	U
75-69-4	Trichlorofluoromethane	12 1.0	+ U
75-35-4	1,1-Dichloroethene	12.	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	12.	U
67-64-1	Acetone	24.	U
75-15-0	Carbon disulfide	12.	U
79-20-9	Methyl acetate	12.	U
75-09-2	Methylene chloride	12 5.6	JB U
156-60-5	trans-1,2-Dichloroethene	12.	U
1634-04-4	Methyl tert-butyl ether	12.	U
75-34-3	1,1-Dichloroethane	12.	U
156-59-2	cis-1,2-Dichloroethene	12.	U
78-93-3	2-Butanone	24.	U
74-97-5	Bromochloromethane	12.	U
67-66-3	Chloroform	12.	U
71-55-6	1,1,1-Trichloroethane	12.	U
110-82-7	Cyclohexane	12.	U
56-23-5	Carbon tetrachloride	12.	U
71-43-2	Benzene	3.1	J
107-06-2	1,2-Dichloroethane	12.	U
123-91-1	1,4-Dioxane	240	X R

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1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J94W0

Lab Name: DataChem Laboratories, Inc.
 Lab Code: DATAAC Case No.: 37584 Mod. Ref No.: _____ SDG No.: J94S6
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 8215001017
 Sample wt/vol: 2.56 (g/mL) g Lab File ID: SC98C017
 Level: (TRACE/LOW/MED) LOW Date Received: 08/02/2008
 % Moisture: not dec. 18. Date Analyzed: 08/08/2008
 GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
 Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
79-01-6	Trichloroethene	12.	U
108-87-2	Methylcyclohexane	12.	U
78-87-5	1,2-Dichloropropane	12.	U
75-27-4	Bromodichloromethane	12.	U
10061-01-5	cis-1,3-Dichloropropene	12.	U
108-10-1	4-Methyl-2-Pentanone	24.	U
108-88-3	Toluene	12.	
10061-02-6	trans-1,3-Dichloropropene	12.	U
79-00-5	1,1,2-Trichloroethane	12.	U
127-18-4	Tetrachloroethene	12.	U
591-78-6	2-Hexanone	24.	U
124-48-1	Dibromochloromethane	12.	U
106-93-4	1,2-Dibromoethane	12.	U
108-90-7	Chlorobenzene	12.	U
100-41-4	Ethylbenzene	1.9	J
95-47-6	o-Xylene	1.9	J
179601-23-1	m,p-Xylene	5.7	J
100-42-5	Styrene	12.	U
75-25-2	Bromoform	12.	U
98-82-8	Isopropylbenzene	12.	U
79-34-5	1,1,2,2-Tetrachloroethane	12.	U
541-73-1	1,3-Dichlorobenzene	12.	U
106-46-7	1,4-Dichlorobenzene	12.	U
95-50-1	1,2-Dichlorobenzene	12.048	J
96-12-8	1,2-Dibromo-3-chloropropane	12.	U
120-82-1	1,2,4-Trichlorobenzene	12.	U
87-61-6	1,2,3-Trichlorobenzene	12.	U

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1J - FORM I VOA-TIC
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

J94W0

Lab Name: <u>DataChem Laboratories, Inc.</u>	Contract: <u>EP-W-05-026</u>
Lab Code: <u>DATA C</u>	Case No.: <u>37584</u> Mod. Ref No.: _____ SDG No.: <u>J94S6</u>
Matrix: (SOIL/SED/WATER) <u>SOIL</u>	Lab Sample ID: <u>8215001017</u>
Sample wt/vol: <u>2.56</u> (g/mL) <u>g</u>	Lab File ID: <u>SC98C017</u>
Level: (TRACE/LOW/MED) <u>LOW</u>	Date Received: <u>08/02/2008</u>
% Moisture: not dec. <u>18</u> .	Date Analyzed: <u>08/08/2008</u>
GC Column: <u>DB624</u> ID: <u>0.53</u> (mm)	Dilution Factor: <u>1.0</u>
Soil Extract Volume: _____ (uL)	Soil Aliquot Volume: _____ (uL)
CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/kg</u>	Purge Volume: <u>10.0</u> (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01				
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
E966796 ¹	Total Alkanes	N/A		

¹EPA-designated Registry Number.

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1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J94W1

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026
 Lab Code: DATAC Case No.: 37584 Mod. Ref No.: SDG No.: J94S6
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 8215001018
 Sample wt/vol: 2.06 (g/mL) g Lab File ID: SC99C018
 Level: (TRACE/LOW/MED) LOW Date Received: 08/02/2008
 % Moisture: not dec. 8.9 Date Analyzed: 08/08/2008
 GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0
 Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)
 Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
75-71-8	Dichlorodifluoromethane	13.	U
74-87-3	Chloromethane	13.	U
75-01-4	Vinyl chloride	13.	U
74-83-9	Bromomethane	13.	U
75-00-3	Chloroethane	13.	U
75-69-4	Trichlorofluoromethane	13 0.69	± U
75-35-4	1,1-Dichloroethene	.13.	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	13.	U
67-64-1	Acetone	27.	U
75-15-0	Carbon disulfide	13.	U
79-20-9	Methyl acetate	13.	U
75-09-2	Methylene chloride	13 4.6	JB U
156-60-5	trans-1,2-Dichloroethene	13.	U
1634-04-4	Methyl tert-butyl ether	13.	U
75-34-3	1,1-Dichloroethane	13.	U
156-59-2	cis-1,2-Dichloroethene	13.	U
78-93-3	2-Butanone	27.	U
74-97-5	Bromochloromethane	13.	U
67-66-3	Chloroform	13.	U
71-55-6	1,1,1-Trichloroethane	13.	U
110-82-7	Cyclohexane	13.	U
56-23-5	Carbon tetrachloride	13.	U
71-43-2	Benzene	2.8	J
107-06-2	1,2-Dichloroethane	13.	U
123-91-1	1,4-Dioxane	270	XR

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1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J94W1

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026
 Lab Code: DATA1 Case No.: 37584 Mod. Ref No.: _____ SDG No.: J94S6
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 8215001018
 Sample wt/vol: 2.06 (g/mL) g Lab File ID: SC99C018
 Level: (TRACE/LOW/MED) LOW Date Received: 08/02/2008
 % Moisture: not dec. 8.9 Date Analyzed: 08/08/2008
 GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
 Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/kg</u>	Q
79-01-6	Trichloroethene	13.	U
108-87-2	Methylcyclohexane	13.	U
78-87-5	1, 2-Dichloropropane	13.	U
75-27-4	Bromodichloromethane	13.	U
10061-01-5	cis-1,3-Dichloropropene	13.	U
108-10-1	4-Methyl-2-Pentanone	27.	U
108-88-3	Toluene	13. 42.	4 U
10061-02-6	trans-1,3-Dichloropropene	13.	U
79-00-5	1,1,2-Trichloroethane	13.	U
127-18-4	Tetrachloroethene	13.	U
591-78-6	2-Hexanone	27.	UI
124-48-1	Dibromochloromethane	13.	U
106-93-4	1, 2-Dibromoethane	13.	U
108-90-7	Chlorobenzene	13.	U
100-41-4	Ethylbenzene	2.1	J Q
95-47-6	o-Xylene	2.6	J Q
179601-23-1	m, p-Xylene	7.2	J Q
100-42-5	Styrene	13.	U
75-25-2	Bromoform	13.	U
98-82-8	Isopropylbenzene	13.	U
79-34-5	1, 1, 2, 2-Tetrachloroethane	13.	U
541-73-1	1, 3-Dichlorobenzene	13.	U
106-46-7	1, 4-Dichlorobenzene	13.	U
95-50-1	1, 2-Dichlorobenzene	13. 0.39	4 U
96-12-8	1, 2-Dibromo-3-chloropropane	13.	U
120-82-1	1, 2, 4-Trichlorobenzene	13.	U
87-61-6	1, 2, 3-Trichlorobenzene	13.	U

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1J - FORM I VOA-TIC
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

J94W1

Lab Name: <u>DataChem Laboratories, Inc.</u>	Contract: <u>EP-W-05-026</u>		
Lab Code: <u>DATAAC</u>	Case No.: <u>37584</u>	Mod. Ref No.: _____	SDG No.: <u>J94S6</u>
Matrix: (SOIL/SED/WATER) <u>SOIL</u>	Lab Sample ID: <u>8215001018</u>		
Sample wt/vol: <u>2.06</u> (g/mL) <u>a</u>	Lab File ID: <u>SC99C018</u>		
Level: (TRACE/LOW/MED) <u>LOW</u>	Date Received: <u>08/02/2008</u>		
% Moisture: not dec. <u>8.9</u>	Date Analyzed: <u>08/08/2008</u>		
GC Column: <u>DB624</u>	<u>ID: 0.53</u>	(mm)	Dilution Factor: <u>1.0</u>
Soil Extract Volume: _____	(uL)	Soil Aliquot Volume: _____	(uL)
CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/kg</u>	Purge Volume: <u>10.0</u> (mL)		

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01				
02				
03				
04				
05				
06				
07				
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21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
E966796 ¹	Total Alkanes	N/A		

¹EPA-designated Registry Number.

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1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J94W2

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026
 Lab Code: DATA C Case No.: 37584 Mod. Ref No.: _____ SDG No.: J94S6
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 8215001019
 Sample wt/vol: 3.33 (g/mL) g Lab File ID: SD00C019
 Level: (TRACE/LOW/MED) LOW Date Received: 08/02/2008
 % Moisture: not dec. 13. Date Analyzed: 08/08/2008
 GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
 Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
75-71-8	Dichlorodifluoromethane	8.6	U
74-87-3	Chloromethane	8.6	U
75-01-4	Vinyl chloride	8.6	U
74-83-9	Bromomethane	8.6	U
75-00-3	Chloroethane	8.6	U
75-69-4	Trichlorofluoromethane	8.6 0.57	JU
75-35-4	1,1-Dichloroethene	8.6	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	8.6	U
67-64-1	Acetone	17.	U
75-15-0	Carbon disulfide	8.6	U
79-20-9	Methyl acetate	8.6	U
75-09-2	Methylene chloride	9.8	BU
156-60-5	trans-1,2-Dichloroethene	8.6	U
1634-04-4	Methyl tert-butyl ether	8.6	U
75-34-3	1,1-Dichloroethane	8.6	U
156-59-2	cis-1,2-Dichloroethene	8.6	U
78-93-3	2-Butanone	17.	BT
74-97-5	Bromochloromethane	8.6	U
67-66-3	Chloroform	8.6	U
71-55-6	1,1,1-Trichloroethane	8.6	U
110-82-7	Cyclohexane	8.6	U
56-23-5	Carbon tetrachloride	8.6	U
71-43-2	Benzene	2.1	JQ
107-06-2	1,2-Dichloroethane	8.6	U
123-91-1	1,4-Dioxane	170	XR

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1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J94W2

Lab Name: DataChem Laboratories, Inc.

Contract: EP-W-05-026

Lab Code: DATA C Case No.: 37584 Mod. Ref No.: _____ SDG No.: J94S6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 8215001019

Sample wt/vol: 3.33 (g/mL) g Lab File ID: SD00C019

Level: (TRACE/LOW/MED) LOW Date Received: 08/02/2008

% Moisture: not dec. 13. Date Analyzed: 08/08/2008

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
79-01-6	Trichloroethene	8.6	U
108-87-2	Methylcyclohexane	8.6	U
78-87-5	1,2-Dichloropropane	8.6	U
75-27-4	Bromodichloromethane	8.6	U
10061-01-5	cis-1,3-Dichloropropene	8.6	U
108-10-1	4-Methyl-2-Pentanone	17.	U
108-88-3	Toluene	11.	
10061-02-6	trans-1,3-Dichloropropene	8.6	U
79-00-5	1,1,2-Trichloroethane	8.6	U
127-18-4	Tetrachloroethene	8.6	U
591-78-6	2-Hexanone	17.	U
124-48-1	Dibromochloromethane	8.6	U
106-93-4	1,2-Dibromoethane	8.6	U
108-90-7	Chlorobenzene	8.6	U
100-41-4	Ethylbenzene	2.3	JQ
95-47-6	o-Xylene	2.5	JQ
179601-23-1	m,p-Xylene	7.3	JQ
100-42-5	Styrene	8.6	U
75-25-2	Bromoform	8.6	U
98-82-8	Isopropylbenzene	8.6	U
79-34-5	1,1,2,2-Tetrachloroethane	8.6	U
541-73-1	1,3-Dichlorobenzene	8.6	U
106-46-7	1,4-Dichlorobenzene	0.24	JQ
95-50-1	1,2-Dichlorobenzene	8.6	JU
96-12-8	1,2-Dibromo-3-chloropropane	8.6	U
120-82-1	1,2,4-Trichlorobenzene	8.6	U
87-61-6	1,2,3-Trichlorobenzene	8.6	U

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1J - FORM I VOA-TIC
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

J94W2

Lab Name: <u>DataChem Laboratories, Inc.</u>	Contract: <u>EP-W-05-026</u>		
Lab Code: <u>DATAAC</u>	Case No.: <u>37584</u>	Mod. Ref No.: _____	SDG No.: <u>J94S6</u>
Matrix: (SOIL/SED/WATER) <u>SOIL</u>	Lab Sample ID: <u>8215001019</u>		
Sample wt/vol: <u>3.33</u> (g/mL) <u>g</u>	Lab File ID: <u>SD00C019</u>		
Level: (TRACE/LOW/MED) <u>LOW</u>	Date Received: <u>08/02/2008</u>		
% Moisture: not dec. <u>13.</u>	Date Analyzed: <u>08/08/2008</u>		
GC Column: <u>DB624</u>	<u>ID: 0.53</u>	(mm)	Dilution Factor: <u>1.0</u>
Soil Extract Volume: _____	(uL)	Soil Aliquot Volume: _____	(uL)
CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/kg</u>		Purge Volume: <u>10.0</u> (mL)	

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01				
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
E966796 ¹	Total Alkanes		N/A	

¹EPA-designated Registry Number.

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1A - FORM I VOA-1 *REPORT*
 VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J94W3

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026
 Lab Code: DATAC Case No.: 37584 Mod. Ref No.: _____ SDG No.: J94S6
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 8215001020
 Sample wt/vol: 2.93 (g/mL) g Lab File ID: SD01C020
 Level: (TRACE/LOW/MED) LOW Date Received: 08/02/2008
 % Moisture: not dec. 4.8 Date Analyzed: 08/08/2008
 GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
 Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/kg</u>	Q
75-71-8	Dichlorodifluoromethane	9.0	U
74-87-3	Chloromethane	9.0	U
75-01-4	Vinyl chloride	9.0	U
74-83-9	Bromomethane	9.0	U
75-00-3	Chloroethane	9.0	U
75-69-4	Trichlorofluoromethane	9.0 [±] 4	+U
75-35-4	1,1-Dichloroethene	9.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	9.0	U
67-64-1	Acetone	18.	U
75-15-0	Carbon disulfide	9.0	U
79-20-9	Methyl acetate	9.0	U
75-09-2	Methylene chloride	9.0 [±] 8	JB U
156-60-5	trans-1,2-Dichloroethene	9.0	U
1634-04-4	Methyl tert-butyl ether	9.0	U
75-34-3	1,1-Dichloroethane	9.0	U
156-59-2	cis-1,2-Dichloroethene	9.0	U
78-93-3	2-Butanone	18.	U
74-97-5	Bromoform	9.0	U
67-66-3	Chloroform	9.0	U
71-55-6	1,1,1-Trichloroethane	9.0	U
110-82-7	Cyclohexane	9.0	U
56-23-5	Carbon tetrachloride	9.0	U
71-43-2	Benzene	2.8	J Q
107-06-2	1,2-Dichloroethane	9.0	U
123-91-1	1,4-Dioxane	180	XR

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1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J94W3

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026
 Lab Code: DATAC Case No.: 37584 Mod. Ref No.: _____ SDG No.: J94S6
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 8215001020
 Sample wt/vol: 2.93 (g/mL) g Lab File ID: SD01C020
 Level: (TRACE/LOW/MED) LOW Date Received: 08/02/2008
 % Moisture: not dec. 4.8 Date Analyzed: 08/08/2008
 GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
 Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/kg</u>	Q
79-01-6	Trichloroethene	9.0	U
108-87-2	Methylcyclohexane	9.0	U
78-87-5	1,2-Dichloropropane	9.0	U
75-27-4	Bromodichloromethane	9.0	U
10061-01-5	cis-1,3-Dichloropropene	9.0	U
108-10-1	4-Methyl-2-Pentanone	18.	U
108-88-3	Toluene	9.0 8.7	J U
10061-02-6	trans-1,3-Dichloropropene	9.0	U
79-00-5	1,1,2-Trichloroethane	9.0	U
127-18-4	Tetrachloroethene	9.0	U
591-78-6	2-Hexanone	18.	U
124-48-1	Dibromochloromethane	9.0	U
106-93-4	1,2-Dibromoethane	9.0	U
108-90-7	Chlorobenzene	9.0	U
100-41-4	Ethylbenzene	1.4	J
95-47-6	o-Xylene	1.3	J
179601-23-1	m,p-Xylene	3.8	J Q
100-42-5	Styrene	9.0	U
75-25-2	Bromoform	9.0	U
98-82-8	Isopropylbenzene	9.0	U
79-34-5	1,1,2,2-Tetrachloroethane	9.0	U
541-73-1	1,3-Dichlorobenzene	9.0	U
106-46-7	1,4-Dichlorobenzene	9.0	U
95-50-1	1,2-Dichlorobenzene	9.0	U
96-12-8	1,2-Dibromo-3-chloropropane	9.0	U
120-82-1	1,2,4-Trichlorobenzene	9.0	U
87-61-6	1,2,3-Trichlorobenzene	9.0	U

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1J - FORM I VOA-TIC
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

J94W3

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026
 Lab Code: DATAC Case No.: 37584 Mod. Ref No.: _____ SDG No.: J94S6
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 8215001020
 Sample wt/vol: 2.93 (g/mL) g Lab File ID: SD01C020
 Level: (TRACE/LOW/MED) LOW Date Received: 08/02/2008
 % Moisture: not dec. 4.8 Date Analyzed: 08/08/2008
 GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
 CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01				
02				
03				
04				
05				
06				
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20				
21				
22				
23				
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25				
26				
27				
28				
29				
30				
E966796 ¹	Total Alkanes	N/A		

¹EPA-designated Registry Number.

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1A - FORM I VOA-1 *Do NOT Report*
 VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J94W3RE

Lab Name: DataChem Laboratories, Inc.

Contract: EP-W-05-026

Lab Code: DATAAC Case No.: 37584 Mod. Ref No.: SDG No.: J94S6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 8215001020RE

Sample wt/vol: 2.86 (g/mL) g Lab File ID: SD06R020

Level: (TRACE/LOW/MED) LOW Date Received: 08/02/2008

% Moisture: not dec. 4.8 Date Analyzed: 08/08/2008

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
75-71-8	Dichlorodifluoromethane	9.2	U
74-87-3	Chloromethane	9.2	U
75-01-4	Vinyl chloride	9.2	U
74-83-9	Bromomethane	9.2	U
75-00-3	Chloroethane	9.2	U
75-69-4	Trichlorofluoromethane	9.2 ^{1.9}	± U
75-35-4	1,1-Dichloroethene	9.2	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	9.2	U
67-64-1	Acetone	18.	U
75-15-0	Carbon disulfide	9.2	U
79-20-9	Methyl acetate	9.2	U
75-09-2	Methylene chloride	9.5	± U
156-60-5	trans-1,2-Dichloroethene	9.2	U
1634-04-4	Methyl tert-butyl ether	9.2	U
75-34-3	1,1-Dichloroethane	9.2	U
156-59-2	cis-1,2-Dichloroethene	9.2	U
78-93-3	2-Butanone	18.	U
74-97-5	Bromochloromethane	9.2	U
67-66-3	Chloroform	9.2	U
71-55-6	1,1,1-Trichloroethane	9.2	U
110-82-7	Cyclohexane	9.2	U
56-23-5	Carbon tetrachloride	9.2	U
71-43-2	Benzene	2.8	JQ
107-06-2	1,2-Dichloroethane	9.2	U
123-91-1	1,4-Dioxane	180	U

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1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J94W3RE

Lab Name: DataChem Laboratories, Inc.

Contract: EP-W-05-026

Lab Code: DATAAC Case No.: 37584 Mod. Ref No.: SDG No.: J94S6

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: 8215001020RE

Sample wt/vol: 2.86 (g/mL) g

Lab File ID: SD06R020

Level: (TRACE/LOW/MED) LOW

Date Received: 08/02/2008

% Moisture: not dec. 4.8

Date Analyzed: 08/08/2008

GC Column: DB624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
79-01-6	Trichloroethene	9.2	U
108-87-2	Methylcyclohexane	9.2	U
78-87-5	1,2-Dichloropropane	9.2	U
75-27-4	Bromodichloromethane	9.2	U
10061-01-5	cis-1,3-Dichloropropene	9.2	U
108-10-1	4-Methyl-2-Pentanone	18.	U
108-88-3	Toluene	9.2	U
10061-02-6	trans-1,3-Dichloropropene	9.2	U
79-00-5	1,1,2-Trichloroethane	9.2	U
127-18-4	Tetrachloroethene	9.2	U
591-78-6	2-Hexanone	18.	U
124-48-1	Dibromochloromethane	9.2	U
106-93-4	1,2-Dibromoethane	9.2	U
108-90-7	Chlorobenzene	9.2	U
100-41-4	Ethylbenzene	2.0	J
95-47-6	O-Xylene	0.85	J
179601-23-1	m,p-Xylene	2.7	J
100-42-5	Styrene	9.2	U
75-25-2	Bromoform	9.2	U
98-82-8	Isopropylbenzene	9.2	U
79-34-5	1,1,2,2-Tetrachloroethane	9.2	U
541-73-1	1,3-Dichlorobenzene	9.2	U
106-46-7	1,4-Dichlorobenzene	9.2	U
95-50-1	1,2-Dichlorobenzene	9.2	U
96-12-8	1,2-Dibromo-3-chloropropane	9.2	U
120-82-1	1,2,4-Trichlorobenzene	9.2	U
87-61-6	1,2,3-Trichlorobenzene	9.2	U

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1J - FORM I VOA-TIC
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

J94W3RE

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026
 Lab Code: DATAC Case No.: 37584 Mod. Ref No.: SDG No.: J94S6
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 8215001020RE
 Sample wt/vol: 2.86 (g/mL) g Lab File ID: SD06R020
 Level: (TRACE/LOW/MED) LOW Date Received: 08/02/2008
 % Moisture: not dec. 4.8 Date Analyzed: 08/08/2008
 GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0
 Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)
 CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01 7785-70-8	1R-.alpha.-Pinene	14.74	13.	JN
02 18172-67-3	Bicyclo[3.1.1]heptane, 6,6-dimethyl-2-me	15.74	160	JN
03 138-86-3	Limonene	16.62	88.	JN
04				
05				
06				
07				
08				
09				
10				
11				
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14				
15				
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17				
18				
19				
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23				
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25				
26				
27				
28				
29				
30				
E966796 ¹	Total Alkanes	N/A		

¹EPA-designated Registry Number.

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1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J94W4

Lab Name: DataChem Laboratories, Inc.

Contract: EP-W-05-026

Lab Code: DATAC Case No.: 37584 Mod. Ref No.: _____ SDG No.: J94S6

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: 8215001021

Sample wt/vol: 5.18 (g/mL) g

Lab File ID: S002C021

Level: (TRACE/LOW/MED) LOW

Date Received: 08/02/2008

% Moisture: not dec. 36.

Date Analyzed: 08/08/2008

GC Column: DB624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/kg</u>	Q
75-71-8	Dichlorodifluoromethane	7.6	U
74-87-3	Chloromethane	7.6	U
75-01-4	Vinyl chloride	7.6	U
74-83-9	Bromomethane	7.6	U
75-00-3	Chloroethane	7.6	U
75-69-4	Trichlorofluoromethane	7.6	U
75-35-4	1,1-Dichloroethene	7.6	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	7.6	U
67-64-1	Acetone	15.	U
75-15-0	Carbon disulfide	7.6	U
79-20-9	Methyl acetate	7.6	U
75-09-2	Methylene chloride	7.6	BB U
156-60-5	trans-1,2-Dichloroethene	7.6	U
1634-04-4	Methyl tert-butyl ether	7.6	U
75-34-3	1,1-Dichloroethane	7.6	U
156-59-2	cis-1,2-Dichloroethene	7.6	U
78-93-3	2-Butanone	15.	UI
74-97-5	Bromoform	7.6	U
67-66-3	Chloroform	7.6	U
71-55-6	1,1,1-Trichloroethane	7.6	U
110-82-7	Cyclohexane	7.6	U
56-23-5	Carbon tetrachloride	7.6	U
71-43-2	Benzene	7.6	U
107-06-2	1,2-Dichloroethane	7.6	U
123-91-1	1,4-Dioxane	150	XR

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1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J94W4

Lab Name: <u>DataChem Laboratories, Inc.</u>	Contract: <u>EP-W-05-026</u>		
Lab Code: <u>DATAc</u>	Case No.: <u>37584</u>	Mod. Ref No.: _____	SDG No.: <u>J94S6</u>
Matrix: (SOIL/SED/WATER) <u>SOIL</u>	Lab Sample ID: <u>8215001021</u>		
Sample wt/vol: <u>5.18</u> (g/mL) <u>g</u>	Lab File ID: <u>SD02C021</u>		
Level: (TRACE/LOW/MED) <u>LOW</u>	Date Received: <u>08/02/2008</u>		
% Moisture: not dec. <u>36.</u>	Date Analyzed: <u>08/08/2008</u>		
GC Column: <u>DB624</u>	ID: <u>0.53</u>	(mm)	Dilution Factor: <u>1.0</u>
Soil Extract Volume: _____	(uL)	Soil Aliquot Volume: _____ (uL)	
Purge Volume: <u>10.0</u>	(mL)		

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/kg</u>	Q
79-01-6	Trichloroethene	7.6	U
108-87-2	Methylcyclohexane	7.6	U
78-87-5	1,2-Dichloropropane	7.6	U
75-27-4	Bromodichloromethane	7.6	U
10061-01-5	cis-1,3-Dichloropropene	7.6	U
108-10-1	4-Methyl-2-Pentanone	15.	U
108-88-3	Toluene	7.60.68	JU
10061-02-6	trans-1,3-Dichloropropene	7.6	U
79-00-5	1,1,2-Trichloroethane	7.6	U
127-18-4	Tetrachloroethene	7.6	U
591-78-6	2-Hexanone	15.	U
124-48-1	Dibromochloromethane	7.6	U
106-93-4	1,2-Dibromoethane	7.6	U
108-90-7	Chlorobenzene	7.6	U
100-41-4	Ethylbenzene	7.6	U
95-47-6	o-Xylene	7.6	U
179601-23-1	m,p-Xylene	7.6	U
100-42-5	Styrene	7.6	U
75-25-2	Bromoform	7.6	U
98-82-8	Isopropylbenzene	7.6	U
79-34-5	1,1,2,2-Tetrachloroethane	7.6	U
541-73-1	1,3-Dichlorobenzene	7.6	U
106-46-7	1,4-Dichlorobenzene	7.6	U
95-50-1	1,2-Dichlorobenzene	7.60.24	JU
96-12-8	1,2-Dibromo-3-chloropropane	7.6	U
120-82-1	1,2,4-Trichlorobenzene	7.6	U
87-61-6	1,2,3-Trichlorobenzene	7.6	U

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IJ - FORM I VOA-TIC
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

J94W4

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026
 Lab Code: DATA Case No.: 37584 Mod. Ref No.: SDG No.: J94S6
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 8215001021
 Sample wt/vol: 5.18 (g/mL) g Lab File ID: SD02C021
 Level: (TRACE/LOW/MED) LOW Date Received: 08/02/2008
 % Moisture: not dec. 36. Date Analyzed: 08/08/2008
 GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0
 Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)
 CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01				
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
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16				
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18				
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20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
E966796 ¹	Total Alkanes		N/A	

¹EPA-designated Registry Number.

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SOM01.2 (6/2007)

1A - FORM I VOA-1 **REPORT**
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J94W5

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026
 Lab Code: DATAC Case No.: 37584 Mod. Ref No.: SDG No.: J94S6
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 8215001022
 Sample wt/vol: 3.34 (g/mL) g Lab File ID: SD03C022
 Level: (TRACE/LOW/MED) LOW Date Received: 08/02/2008
 % Moisture: not dec. 14. Date Analyzed: 08/08/2008
 GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0
 Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)
 Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
75-71-8	Dichlorodifluoromethane	8.7	U
74-87-3	Chloromethane	8.7	U
75-01-4	Vinyl chloride	8.7	U
74-83-9	Bromomethane	8.7	U
75-00-3	Chloroethane	8.7	U
75-69-4	Trichlorofluoromethane	8.7	U
75-35-4	1,1-Dichloroethene	8.7	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	8.7	U
67-64-1	Acetone	17.	U
75-15-0	Carbon disulfide	8.7	U
79-20-9	Methyl acetate	8.7	U
75-09-2	Methylene chloride	19.	U
156-60-5	trans-1,2-Dichloroethene	8.7	U
1634-04-4	Methyl tert-butyl ether	8.7	U
75-34-3	1,1-Dichloroethane	8.7	U
156-59-2	cis-1,2-Dichloroethene	8.7	U
78-93-3	2-Butanone	17.	U
74-97-5	Bromochloromethane	8.7	U
67-66-3	Chloroform	8.7	U
71-55-6	1,1,1-Trichloroethane	8.7	U
110-82-7	Cyclohexane	8.7	U
56-23-5	Carbon tetrachloride	8.7	U
71-43-2	Benzene	3.9	JK
107-06-2	1,2-Dichloroethane	8.7	U
123-91-1	1,4-Dioxane	170	JKR

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1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J94W5

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026
 Lab Code: DATA C Case No.: 37584 Mod. Ref No.: _____ SDG No.: J94S6
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 8215001022
 Sample wt/vol: 3.34 (g/mL) g Lab File ID: SD03C022
 Level: (TRACE/LOW/MED) LOW Date Received: 08/02/2008
 % Moisture: not dec. 14. Date Analyzed: 08/08/2008
 GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
 Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/kg</u>	Q
79-01-6	Trichloroethene	8.7	U
108-87-2	Methylcyclohexane	8.7	U
78-87-5	1,2-Dichloropropane	8.7	U
75-27-4	Bromodichloromethane	8.7	U
10061-01-5	cis-1,3-Dichloropropene	8.7	U
108-10-1	4-Methyl-2-Pentanone	17.	U
108-88-3	Toluene	8.7	U
10061-02-6	trans-1,3-Dichloropropene	8.7	U
79-00-5	1,1,2-Trichloroethane	8.7	U
127-18-4	Tetrachloroethene	0.28	U
591-78-6	2-Hexanone	17.	U
124-48-1	Dibromochloromethane	8.7	U
106-93-4	1,2-Dibromoethane	8.7	U
108-90-7	Chlorobenzene	8.7	U
100-41-4	Ethylbenzene	1.5	U
95-47-6	o-Xylene	0.54	U
179601-23-1	m,p-Xylene	1.9	U
100-42-5	Styrene	8.7	U
75-25-2	Bromoform	8.7	U
98-82-8	Isopropylbenzene	0.40	U
79-34-5	1,1,2,2-Tetrachloroethane	8.7	U
541-73-1	1,3-Dichlorobenzene	8.7	U
106-46-7	1,4-Dichlorobenzene	8.7	U
95-50-1	1,2-Dichlorobenzene	8.7	U
96-12-8	1,2-Dibromo-3-chloropropane	8.7	U
120-82-1	1,2,4-Trichlorobenzene	8.7	U
87-61-6	1,2,3-Trichlorobenzene	8.7	U

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1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

J94W5

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026
 Lab Code: DATAC Case No.: 37584 Mod. Ref No.: _____ SDG No.: J94S6
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 8215001022
 Sample wt/vol: 3.34 (g/mL) g Lab File ID: SD03C022
 Level: (TRACE/LOW/MED) LOW Date Received: 08/02/2008
 % Moisture: not dec. 14. Date Analyzed: 08/08/2008
 GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
 CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01				
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
E966796 ¹	Total Alkanes	N/A		

¹EPA-designated Registry Number.

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SOM01.2 (6/2007)

1A - FORM I VOA-1 **Do NOT REPORT**
 VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J94W5RE

Lab Name: DataChem Laboratories, Inc.

Contract: EP-W-05-026

Lab Code: DATAC Case No.: 37584 Mod. Ref No.: _____ SDG No.: J94S6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 8215001022RE

Sample wt/vol: 2.77 (g/mL) g Lab File ID: SD07R022

Level: (TRACE/LOW/MED) LOW Date Received: 08/02/2008

% Moisture: not dec. 14. Date Analyzed: 08/08/2008

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 10.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/kg</u>	Q
75-71-8	Dichlorodifluoromethane	10.	U
74-87-3	Chloromethane	10.	U
75-01-4	Vinyl chloride	10.	U
74-83-9	Bromomethane	10.	U
75-00-3	Chloroethane	10.	U
75-69-4	Trichlorofluoromethane	10 1.9	J U
75-35-4	1,1-Dichloroethene	10.	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10.	U
67-64-1	Acetone	21.	U
75-15-0	Carbon disulfide	10.	U
79-20-9	Methyl acetate	10.	U
75-09-2	Methylene chloride	10 4.9	JB U
156-60-5	trans-1,2-Dichloroethene	10.	U
1634-04-4	Methyl tert-butyl ether	10.	U
75-34-3	1,1-Dichloroethane	10.	U
156-59-2	cis-1,2-Dichloroethene	10.	U
78-93-3	2-Butanone	21.	U
74-97-5	Bromoform	10.	U
67-66-3	Chloroform	10.	U
71-55-6	1,1,1-Trichloroethane	10.	U
110-82-7	Cyclohexane	10.	U
56-23-5	Carbon tetrachloride	10.	U
71-43-2	Benzene	3.2	J Q
107-06-2	1,2-Dichloroethane	10.	U
123-91-1	1,4-Dioxane	210	U

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1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J94W5RE

Lab Name: DataChem Laboratories, Inc.
 Lab Code: DATAAC Case No.: 37584 Mod. Ref No.: SDG No.: J94S6
 Matrix: (SOIL/SED/WATER) SOIL
 Sample wt/vol: 2.77 (g/mL) g
 Level: (TRACE/LOW/MED) LOW
 % Moisture: not dec. 14.
 GC Column: DB624 ID: 0.53 (mm)
 Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)
 Purge Volume: 10.0 (mL)

Contract: EP-W-05-026

Lab Sample ID: 8215001022RE

Lab File ID: SD07R022

Date Received: 08/02/2008

Date Analyzed: 08/08/2008

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
79-01-6	Trichloroethene	10.	U
108-87-2	Methylcyclohexane	10.	U
78-87-5	1,2-Dichloropropane	10.	U
75-27-4	Bromodichloromethane	10.	U
10061-01-5	cis-1,3-Dichloropropene	10.	U
108-10-1	4-Methyl-2-Pentanone	21.	U
108-88-3	Toluene	10 2.4	J
10061-02-6	trans-1,3-Dichloropropene	10.	U
79-00-5	1,1,2-Trichloroethane	10.	U
127-18-4	Tetrachloroethene	0.55	J
591-78-6	2-Hexanone	21.	U
124-48-1	Dibromochloromethane	10.	U
106-93-4	1,2-Dibromoethane	10.	U
108-90-7	Chlorobenzene	10.	U
100-41-4	Ethylbenzene	10.	U
95-47-6	o-Xylene	10.	U
179601-23-1	m,p-Xylene	10.	U
100-42-5	Styrene	10.	U
75-25-2	Bromoform	10.	U
98-82-8	Isopropylbenzene	10.	U
79-34-5	1,1,2,2-Tetrachloroethane	10.	U
541-73-1	1,3-Dichlorobenzene	10.	U
106-46-7	1,4-Dichlorobenzene	10.	U
95-50-1	1,2-Dichlorobenzene	10.	U
96-12-8	1,2-Dibromo-3-chloropropane	10.	U
120-82-1	1,2,4-Trichlorobenzene	10.	U
87-61-6	1,2,3-Trichlorobenzene	10.	U

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1J - FORM I VOA-TIC
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

J94W5RE

Lab Name: DataChem Laboratories, Inc.

Contract: EP-W-05-026

Lab Code: DATAAC Case No.: 37584 Mod. Ref No.: _____ SDG No.: J94S6

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: 8215001022RE

Sample wt/vol: 2.77 (g/mL) g

Lab File ID: SD07R022

Level: (TRACE/LOW/MED) LOW

Date Received: 08/02/2008

* Moisture: not dec. 14.

Date Analyzed: 08/08/2008

GC Column: DB624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg

Purge Volume: 10.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01				
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
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21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
E9666796 ¹	Total Alkanes	N/A		

¹EPA-designated Registry Number.

[Signature]
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SOM01.2 (6/2007)

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J94S6

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026
 Lab Code: DATAAC Case No.: 37584 Mod. Ref No.: SDG No.: J94S6
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 8215001001
 Sample wt/vol: 30.0 (g/mL) g Lab File ID: NLL14C01
 Level: (LOW/MED) LOW Extraction: (Type) SONC
 % Moisture: 16. Decanted: (Y/N) N Date Received: 08/02/2008
 Concentrated Extract Volume: 500. (uL) Date Extracted: 08/04/2008
 Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 08/15/2008
 GPC Cleanup: (Y/N) Y pH: 8.2 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	48.	J
108-95-2	Phenol	200	U
111-44-4	Bis(2-chloroethyl)ether	200	U
95-57-8	2-Chlorophenol	200	U
95-48-7	2-Methylphenol	200	U
108-60-1	2,2'-Oxybis(1-chloropropane)	200	U
98-86-2	Acetophenone	62.	J
106-44-5	4-Methylphenol	200	U
621-64-7	N-Nitroso-di-n-propylamine	200	U
67-72-1	Hexachloroethane	200	U
98-95-3	Nitrobenzene	200	U
78-59-1	Isophorone	200	U
88-75-5	2-Nitrophenol	200	U
105-67-9	2,4-Dimethylphenol	200	U
111-91-1	Bis(2-chloroethoxy)methane	200	U
120-83-2	2,4-Dichlorophenol	200	U
91-20-3	Naphthalene	14.	J
106-47-8	4-Chloroaniline	200	U
87-68-3	Hexachlorobutadiene	200	U
105-60-2	Caprolactam	200	U
59-50-7	4-Chloro-3-methylphenol	200	U
91-57-6	2-Methylnaphthalene	200	U
77-47-4	Hexachlorocyclopentadiene	200	U
88-06-2	2,4,6-Trichlorophenol	200	U
95-95-4	2,4,5-Trichlorophenol	200	U
92-52-4	1,1'-Biphenyl	9.5	J
91-58-7	2-Chloronaphthalene	200	U
88-74-4	2-Nitroaniline	390	U
131-11-3	Dimethylphthalate	200	U
606-20-2	2,6-Dinitrotoluene	200	U
208-96-8	Acenaphthylene	200	U
99-09-2	3-Nitroaniline	390	U
83-32-9	Acenaphthene	200	U

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9/25/08 SOM01.2 (6/2007)

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J94S6

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026
 Lab Code: DATAAC Case No.: 37584 Mod. Ref No.: SDG No.: J94S6
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 8215001001
 Sample wt/vol: 30.0 (g/mL) g Lab File ID: NLL14C01
 Level: (LOW/MED) LOW Extraction: (Type) SONC
 % Moisture: 16. Decanted: (Y/N) N Date Received: 08/02/2008
 Concentrated Extract Volume: 500. (uL) Date Extracted: 08/04/2008
 Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 08/15/2008
 GPC Cleanup: (Y/N) Y pH: 8.2 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	390	U
100-02-7	4-Nitrophenol	390	U
132-64-9	Dibenzofuran	7.3	J
121-14-2	2,4-Dinitrotoluene	200	U
84-66-2	Diethylphthalate	200	U
86-73-7	Fluorene	200	U
7005-72-3	4-Chlorophenyl-phenylether	200	U
100-01-6	4-Nitroaniline	390	U
534-52-1	4,6-Dinitro-2-methylphenol	390	U
86-30-6	N-Nitrosodiphenylamine ¹	200	U
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U
101-55-3	4-Bromophenyl-phenylether	200	U
118-74-1	Hexachlorobenzene	200	U
1912-24-9	Atrazine	200	U
87-86-5	Pentachlorophenol	390	U
85-01-8	Phenanthrene	15.	J
120-12-7	Anthracene	200	U
86-74-8	Carbazole	200	U
84-74-2	Di-n-butylphthalate	200	U
206-44-0	Fluoranthene	8.5	J
129-00-0	Pyrene	12.	J
85-68-7	Butylbenzylphthalate	200	U
91-94-1	3,3'-Dichlorobenzidine	200	U
56-55-3	Benzo(a)anthracene	200	U
218-01-9	Chrysene	200	U
117-81-7	Bis(2-ethylhexyl)phthalate	710	F
117-84-0	Di-n-octylphthalate	200	U
205-99-2	Benzo(b)fluoranthene	200	U
207-08-9	Benzo(k)fluoranthene	200	U
50-32-8	Benzo(a)pyrene	200	U
193-39-5	Indeno(1,2,3-cd)pyrene	200	U
53-70-3	Dibenzo(a,h)anthracene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U
58-90-2	2,3,4,6-Tetrachlorophenol	200	399

¹Cannot be separated from Diphenylamine

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9/25/08 S0M01.2 (6/2007)

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

J94S6

Lab Name: DataChem Laboratories, Inc.	Contract: EP-W-05-026	
Lab Code: DATAAC	Case No.: 37584	Mod. Ref No.: SDG No.: J94S6
Matrix: (SOIL/SED/WATER) SOIL	Lab Sample ID: 8215001001	
Sample wt/vol: 30.0 (g/mL) g	Lab File ID: NLL14C01	
Level: (LOW/MED) LOW	Extraction: (Type) SONC	
% Moisture: 16.	Decanted: (Y/N) N	Date Received: 08/02/2008
Concentrated Extract Volume: 500. (uL)	Date Extracted: 08/04/2008	
Injection Volume: 1.0 (uL)	GPC Factor: 2.0	Date Analyzed: 08/15/2008
GPC Cleanup: (Y/N) Y	pH: 8.2	Dilution Factor: 1.0
CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg		

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	112-37-8	Undecanoic acid	11.92	100	JN
02	27185-79-1	2-Cyclohexen-1-one, 3-(3-hydroxybutyl)-2	13.20	130	JN
03	483-65-8	Phenanthrene, 1-methyl-7-(1-methylethyl)	13.84	160	JN
04	100020-96-0	3-[1-Naphthyl]-5-hydroxyiminomethyl-1,2,	14.40	82.	JN
05	36778-18-4	1-(10-Methylanthracen-9-yl)ethanone	14.73	88.	JN
06	109-75-1	3-Butenenitrile	14.94	160	JN
07	100014-00-0	1-Formyl-2,2,6-trimethyl-3-(3-methyl-but	15.24	130	JN
08	100013-96-0	Imidazo[4,5-e][1,4]diazepine-5,8-dione,	15.42	160	JN
09	100020-96-0	7-[3-Chloro-2-hydroxypropyl]guanine	15.50	240	JN
10	7056-56-6	2(1H)-Naphthalenone, octahydro-4a,7,7-tr	15.60	170	JN
11	3084-94-4	1,3,5-Triazine-2,4-diamine, 6-bromo-N,N'	15.69	170	JN
12	150-84-5	6-Octen-1-ol, 3,7-dimethyl-, acetate	16.06	92.	JN
13	54155-13-4	3-Phenanthrenol, tetradecahydro-4b,8,8-t	16.13	88.	JN
14	100014-00-0	1-Formyl-2,2-dimethyl-3-trans-(3-methyl-	16.23	160	JN
15	100013-99-0	1-Formyl-2,2,6-trimethyl-3-cis-(3-methyl	16.38	270	JN
16	105480-28-2	Imidazole, 4-trifluoroacetyl-	16.47	190	JN
17	2146-71-6	Dodecanoic acid, ethenyl ester	16.83	240	JN
18	100006-95-0	S-Butyl n-hexyl disulfide	17.49	140	JN
19	85-44-9	Phthalic anhydride	17.67	260	JN
20	79-89-0	3-Buten-2-one, 3-methyl-4-(2,6,6-trimeth	19.09	200	JN
21	100014-00-0	4-Methyl-5-phenyl-imidazol-2(3H)-one	20.32	81.	JN
22	2306-33-4	Phthalic acid, monoethyl ester	21.86	220	JN
23					
24					
25					
26					
27					
28					
29					
30					
	E966796 ²	Total Alkanes	N/A	1500	JN

²EPA-designated Registry Number.

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9/25/08

SOM01.2 (6/2007)

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

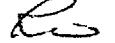
EPA SAMPLE NO.

J94S7

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026
 Lab Code: DATAC Case No.: 37584 Mod. Ref No.: SDG No.: J94S6
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 8215001002
 Sample wt/vol: 30.0 (g/mL) g Lab File ID: NLL15C02
 Level: (LOW/MED) LOW Extraction: (Type) SONC
 % Moisture: 26. Decanted: (Y/N) N Date Received: 08/02/2008
 Concentrated Extract Volume: 500. (uL) Date Extracted: 08/04/2008
 Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 08/15/2008
 GPC Cleanup: (Y/N) Y pH: 8.7 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	60.	JQ
108-95-2	Phenol	22.	JQ
111-44-4	Bis(2-chloroethyl)ether	230	U
95-57-8	2-Chlorophenol	230	U
95-48-7	2-Methylphenol	230	U
108-60-1	2,2'-Oxybis(1-chloropropane)	230	U
98-86-2	Acetophenone	52.	JQ
106-44-5	4-Methylphenol	230	U
621-64-7	N-Nitroso-di-n-propylamine	230	UT
67-72-1	Hexachloroethane	230	U
98-95-3	Nitrobenzene	230	UT
78-59-1	Isophorone	230	UT
88-75-5	2-Nitrophenol	230	U
105-67-9	2,4-Dimethylphenol	230	U
111-91-1	Bis(2-chloroethoxy)methane	230	U
120-83-2	2,4-Dichlorophenol	230	U
91-20-3	Naphthalene	21.	JQ
106-47-8	4-Chloroaniline	230	U
87-68-3	Hexachlorobutadiene	230	U
105-60-2	Caprolactam	230	U
59-50-7	4-Chloro-3-methylphenol	230	U
91-57-6	2-Methylnaphthalene	230	U
77-47-4	Hexachlorocyclopentadiene	230	U
88-06-2	2,4,6-Trichlorophenol	230	U
95-95-4	2,4,5-Trichlorophenol	230	U
92-52-4	1,1'-Biphenyl	20.	JQ
91-58-7	2-Chloronaphthalene	230	U
88-74-4	2-Nitroaniline	450	UT
131-11-3	Dimethylphthalate	230	U
606-20-2	2,6-Dinitrotoluene	230	U
208-96-8	Acenaphthylene	230	U
99-09-2	3-Nitroaniline	450	U
83-32-9	Acenaphthene	230	U

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1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J94S7

Lab Name: DataChem Laboratories, Inc.	Contract: EP-W-05-026
Lab Code: DATAAC Case No.: 37584	Mod. Ref No.: SDG No.: J94S6
Matrix: (SOIL/SED/WATER) SOIL	Lab Sample ID: 8215001002
Sample wt/vol: 30.0 (g/mL) g	Lab File ID: NLL15C02
Level: (LOW/MED) LOW	Extraction: (Type) SONC
% Moisture: 26.	Date Received: 08/02/2008
Concentrated Extract Volume: 500. (uL)	Date Extracted: 08/04/2008
Injection Volume: 1.0 (uL) GPC Factor: 2.0	Date Analyzed: 08/15/2008
GPC Cleanup: (Y/N) Y pH: 8.7	Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	450	UT
100-02-7	4-Nitrophenol	450	U
132-64-9	Dibenzofuran	10.	JQ
121-14-2	2,4-Dinitrotoluene	230	U
84-66-2	Diethylphthalate	230	U
86-73-7	Fluorene	230	U
7005-72-3	4-Chlorophenyl-phenylether	230	U
100-01-6	4-Nitroaniline	450	U
534-52-1	4,6-Dinitro-2-methylphenol	450	U
86-30-6	N-Nitrosodiphenylamine ¹	230	U
95-94-3	1,2,4,5-Tetrachlorobenzene	230	U
101-55-3	4-Bromophenyl-phenylether	230	U
118-74-1	Hexachlorobenzene	230	U
1912-24-9	Atrazine	230	U
87-86-5	Pentachlorophenol	450	U
85-01-8	Phenanthrene	14.	JQ
120-12-7	Anthracene	230	U
86-74-8	Carbazole	230	U
84-74-2	Di-n-butylphthalate	230	U
206-44-0	Fluoranthene	9.1	JQ
129-00-0	Pyrene	13.	JQ
85-68-7	Butylbenzylphthalate	230	U
91-94-1	3,3'-Dichlorobenzidine	230	U
56-55-3	Benzo(a)anthracene	230	U
218-01-9	Chrysene	230	U
117-81-7	Bis(2-ethylhexyl)phthalate	830	F
117-84-0	Di-n-octylphthalate	230	U
205-99-2	Benzo(b)fluoranthene	230	U
207-08-9	Benzo(k)fluoranthene	230	U
50-32-8	Benzo(a)pyrene	230	U
193-39-5	Indeno(1,2,3-cd)pyrene	230	U
53-70-3	Dibenzo(a,h)anthracene	230	U
191-24-2	Benzo(g,h,i)perylene	230	U
58-90-2	2,3,4,6-Tetrachlorophenol	230	439U

¹Cannot be separated from Diphenylamine

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9/25/08 S0M01.2 (6/2007)

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

J94S7

Lab Name: DataChem Laboratories, Inc.	Contract: EP-W-05-026
Lab Code: DATA C	Case No.: 37584 Mod. Ref No.: SDG No.: J94S6
Matrix: (SOIL/SED/WATER) SOIL	Lab Sample ID: 8215001002
Sample wt/vol: 30.0 (g/mL) g	Lab File ID: NLL15C02
Level: (LOW/MED) LOW	Extraction: (Type) SONC
% Moisture: 26.	Date Received: 08/02/2008
Concentrated Extract Volume: 500. (uL)	Date Extracted: 08/04/2008
Injection Volume: 1.0 (uL) GPC Factor: 2.0	Date Analyzed: 08/15/2008
GPC Cleanup: (Y/N) Y pH: 8.7	Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01 56348-21-1	Tricyclo[4.1.0.0 ^{2,4}]heptane, 3,3,7,7-tet	7.52	130	JN
02 57-10-3	n-Hexadecanoic acid	11.92	140	JN
03 100019-00-0	1-Cyclohexene, 1,3,3-trimethyl-2-(1-meth	13.20	120	JN
04 1120-07-6	Nonanamide	13.47	190	JN
05 2571-54-2	2,4,6-Trimethoxybenzonitrile	13.65	160	JN
06 100013-00-0	3,4-O-Acetone sedoheptulosan	14.45	130	JN
07 90949-53-4	7-Nonenamide	14.54	110	JN
08 4926-18-5	1,2,4-Triazolo[4,3-a]pyridin-3(2H)-one,	14.82	110	JN
09 100013-95-0	2-Methyl-2b-hydroxy-4a-ethoxycarbonyl-de	14.91	150	JN
10 100013-95-0	3-(4-Methoxyphenyl)-5-ethyl-(1,2,4)-oxad	14.94	110	JN
11 100011-96-0	3-Aminobenzoic acid, N-[3-carbethoxyphen	15.27	150	JN
12 2436-79-5	1H-Pyrrole-2,4-dicarboxylic acid, 3,5-di	15.65	140	JN
13 19086-81-8	6,2,5-Ethanyllylidene-2H-cyclobuta[cd][2]	15.85	97.	JN
14 464-49-3	Bicyclo[2.2.1]heptan-2-one, 1,7,7-trimet	16.19	100	JN
15 4602-84-0	2,6,10-Dodecatrien-1-ol, 3,7,11-trimethy	16.38	260	JN
16 374-00-5	1-Propene, 3,3,3-trifluoro-2-methyl-	16.51	120	JN
17 100013-99-0	1-Formyl-2,2-dimethyl-3-cis-(2-methy-but	16.55	250	JN
18 2000-72-8	3-Methoxy-D-homoestra-1,3,5(10),8-tetrae	17.67	430	JN
19 6248-88-0	Bicyclo[2.2.1]heptane, 1,3,3-trimethyl-	18.36	240	JN
20 100019-00-0	1-Cyclohexene, 1,3,3-trimethyl-2-(1-meth	19.09	240	JN
21 584-84-9	Benzene, 2,4-diisocyanato-1-methyl-	19.85	130	JN
22 53380-54-4	Dodecamethyl-1,2,5,6-tetrasila-3,4,7,8-t	20.33	120	JN
23 100014-99-0	Diepicedrene-1-oxide	20.89	370	JN
24 100014-91-0	Aziridine, 1-(2-buten-1-yl)-, (E)-	21.71	120	JN
25 2306-33-4	Phthalic acid, monoethyl ester	21.86	360	JN
26 39007-93-7	Sesquirosefuran	22.64	95.	JN
27				
28				
29				
30				
E966796 ^a	Total Alkanes	N/A	1500	JN

^aEPA-designated Registry Number.

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9/25/08 SOM01.2 (6/2007)

1D - FORM I SV-1
SEMICVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J94S8

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026
 Lab Code: DATAC Case No.: 37584 Mod. Ref No.: SDG No.: J94S6
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 8215001003
 Sample wt/vol: 30.0 (g/mL) g Lab File ID: NLL06C03
 Level: (LOW/MED) LOW Extraction: (Type) SONC
 % Moisture: 17. Decanted: (Y/N) N Date Received: 08/02/2008
 Concentrated Extract Volume: 500. (uL) Date Extracted: 08/04/2008
 Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 08/15/2008
 GPC Cleanup: (Y/N) Y pH: 8.7 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	20.	JQ
108-95-2	Phenol	16.	JQ
111-44-4	Bis(2-chloroethyl)ether	200	U
95-57-8	2-Chlorophenol	200	U
95-48-7	2-Methylphenol	200	U
108-60-1	2,2'-Oxybis(1-chloropropane)	200	U
98-86-2	Acetophenone	26.	JQ
106-44-5	4-Methylphenol	200	U
621-64-7	N-Nitroso-di-n-propylamine	200	U
67-72-1	Hexachloroethane	200	U
98-95-3	Nitrobenzene	200	U
78-59-1	Isophorone	200	U
88-75-5	2-Nitrophenol	200	U
105-67-9	2,4-Dimethylphenol	200	U
111-91-1	Bis(2-chloroethoxy)methane	200	U
120-83-2	2,4-Dichlorophenol	200	U
91-20-3	Naphthalene	200	U
106-47-8	4-Chloroaniline	200	U
87-68-3	Hexachlorobutadiene	200	U
105-60-2	Caprolactam	200	U
59-50-7	4-Chloro-3-methylphenol	200	U
91-57-6	2-Methylnaphthalene	200	U
77-47-4	Hexachlorocyclopentadiene	200	U
88-06-2	2,4,6-Trichlorophenol	200	U
95-95-4	2,4,5-Trichlorophenol	200	U
92-52-4	1,1'-Biphenyl	200	U
91-58-7	2-Chloronaphthalene	200	U
88-74-4	2-Nitroaniline	400	U
131-11-3	Dimethylphthalate	200	U
606-20-2	2,6-Dinitrotoluene	200	U
208-96-8	Acenaphthylene	200	U
99-09-2	3-Nitroaniline	400	U
83-32-9	Acenaphthene	200	U

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SOM01.2 (6/2007)

1E - FORM I SV-2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J94S8

Lab Name: DataChem Laboratories, Inc.

Contract: EP-W-05-026

Lab Code: DATAc Case No.: 37584 Mod. Ref No.: SDG No.: J94S6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 8215001003

Sample wt/vol: 30.0 (g/mL) g Lab File ID: NLL06C03

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 17. Decanted: (Y/N) N Date Received: 08/02/2008

Concentrated Extract Volume: 500. (uL) Date Extracted: 08/04/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 08/15/2008

GPC Cleanup: (Y/N) Y pH: 8.7 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	400	U
100-02-7	4-Nitrophenol	400	U
132-64-9	Dibenzofuran	200	U
121-14-2	2,4-Dinitrotoluene	200	U
84-66-2	Diethylphthalate	200	U
86-73-7	Fluorene	200	U
7005-72-3	4-Chlorophenyl-phenylether	200	U
100-01-6	4-Nitroaniline	400	U
534-52-1	4,6-Dinitro-2-methylphenol	400	U
86-30-6	N-Nitrosodiphenylamine ¹	200	U
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U
101-55-3	4-Bromophenyl-phenylether	200	U
118-74-1	Hexachlorobenzene	200	U
1912-24-9	Atrazine	200	U
87-86-5	Pentachlorophenol	400	U
85-01-8	Phenanthrene	200	U
120-12-7	Anthracene	200	U
86-74-8	Carbazole	200	U
84-74-2	Di-n-butylphthalate	200	U
206-44-0	Fluoranthene	200	U
129-00-0	Pyrene	200	U
85-68-7	Butylbenzylphthalate	200	U
91-94-1	3,3'-Dichlorobenzidine	200	U
56-55-3	Benzo(a)anthracene	200	U
218-01-9	Chrysene	200	U
117-81-7	Bis(2-ethylhexyl)phthalate	550	✓
117-84-0	Di-n-octylphthalate	200	U
205-99-2	Benzo(b)fluoranthene	200	U
207-08-9	Benzo(k)fluoranthene	200	U
50-32-8	Benzo(a)pyrene	200	U
193-39-5	Indeno(1,2,3-cd)pyrene	200	U
53-70-3	Dibenzo(a,h)anthracene	200	U
191-24-2	Benzo(g,h,i)perylene	200	U
58-90-2	2,3,4,6-Tetrachlorophenol	200	484 U

¹Cannot be separated from DiphenylamineR
9/25/08 S0M01.2 (6/2007)

1K - FORM I SV-TIC
 SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

J94S8

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026
 Lab Code: DATAC Case No.: 37584 Mod. Ref No.: SDG No.: J94S6
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 8215001003
 Sample wt/vol: 30.0 (g/mL) g Lab File ID: NLL06C03
 Level: (LOW/MED) LOW Extraction: (Type) SONC
 % Moisture: 17. Decanted: (Y/N) N Date Received: 08/02/2008
 Concentrated Extract Volume: 500. (uL) Date Extracted: 08/04/2008
 Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 08/15/2008
 GPC Cleanup: (Y/N) Y pH: 8.7 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01 100020-99-0	1,2,3,4-Tetrahydropentalene, 1,1-dimethyl	6.41	170	JN
02 626-97-1	Pentanamide	13.47	200	JN
03 54789-40-1	Heptanamide, 4-ethyl-5-methyl-	14.41	120	JN
04 50-29-3	Chlorophenoethane	14.47	82.	JN
05 100015-92-0	Undecanamide, 11-bromo-	14.52	110	JN
06 20525-74-0	Zinc, dicyclopentyl-	16.37	140	JN
07 85-44-9	Phthalic anhydride	17.67	410	JN
08 100021-93-0	Perfluoro(tricyclo[5.2.1.0]deca-3,8-dien	19.81	96.	JNB
09 28624-23-9	.delta.-Selinene	20.30	300	JN
10 100014-00-0	b-Homomorphinan-7-one, 5,6,8,14-tetradehy	21.81	86.	JN
11 100014-00-0	2,6-Bis(4-nitro-phenylthio)pyridine	21.86	230	JN
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
E966796*	Total Alkanes	N/A	890	JN

*EPA-designated Registry Number.

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SOM01.2 (6/2007)

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO:

J94S9

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026
 Lab Code: DATAC Case No.: 37584 Mod. Ref No.: SDG No.: J94S6
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 8215001004.
 Sample wt/vol: 30.0 (g/mL) g Lab File ID: NLL16C04
 Level: (LOW/MED) LOW Extraction: (Type) SONC
 % Moisture: 21. Decanted: (Y/N) N Date Received: 08/02/2008
 Concentrated Extract Volume: 500. (uL) Date Extracted: 08/04/2008
 Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 08/15/2008
 GPC Cleanup: (Y/N) Y pH: 8.4 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	63.	JQ
108-95-2	Phenol	15.	JQ
111-44-4	Bis(2-chloroethyl)ether	220	U
95-57-8	2-Chlorophenol	220	U
95-48-7	2-Methylphenol	220	U
108-60-1	2,2'-Oxybis(1-chloropropane)	220	U
98-86-2	Acetophenone	36.	JQ
106-44-5	4-Methylphenol	220	U
621-64-7	N-Nitroso-di-n-propylamine	220	UJ
67-72-1	Hexachloroethane	220	U
98-95-3	Nitrobenzene	220	UJ
78-59-1	Isophorone	220	UJ
88-75-5	2-Nitrophenol	220	U
105-67-9	2,4-Dimethylphenol	220	U
111-91-1	Bis(2-chloroethoxy)methane	220	U
120-83-2	2,4-Dichlorophenol	220	U
91-20-3	Naphthalene	19.	JQ
106-47-8	4-Chloroaniline	220	U
87-68-3	Hexachlorobutadiene	220	U
105-60-2	Caprolactam	220	U
59-50-7	4-Chloro-3-methylphenol	220	U
91-57-6	2-Methylnaphthalene	220	U
77-47-4	Hexachlorocyclopentadiene	220	U
88-06-2	2,4,6-Trichlorophenol	220	U
95-95-4	2,4,5-Trichlorophenol	220	U
92-52-4	1,1'-Biphenyl	9.2	JQ
91-58-7	2-Chloronaphthalene	220	U
88-74-4	2-Nitroaniline	420	UJ
131-11-3	Dimethylphthalate	220	U
606-20-2	2,6-Dinitrotoluene	220	U
208-96-8	Acenaphthylene	220	U
99-09-2	3-Nitroaniline	420	U
83-32-9	Acenaphthene	220	U

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9/25/08 OM01.2 (6/2007)

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J94S9

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026
 Lab Code: DATAC Case No.: 37584 Mod. Ref No.: _____ SDG No.: J94S6
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 8215001004
 Sample wt/vol: 30.0 (g/mL) g Lab File ID: NLL16C04
 Level: (LOW/MED) LOW Extraction: (Type) SONC
 % Moisture: 21. Decanted: (Y/N) N Date Received: 08/02/2008
 Concentrated Extract Volume: 500. (uL) Date Extracted: 08/04/2008
 Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 08/15/2008
 GPC Cleanup: (Y/N) Y pH: 8.4 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	420	U
100-02-7	4-Nitrophenol	420	U
132-64-9	Dibenzofuran	220	U
121-14-2	2,4-Dinitrotoluene	220	U
84-66-2	Diethylphthalate	220	U
86-73-7	Fluorene	220	U
7005-72-3	4-Chlorophenyl-phenylether	220	U
100-01-6	4-Nitroaniline	420	U
534-52-1	4,6-Dinitro-2-methylphenol	420	U
86-30-6	N-Nitrosodiphenylamine ¹	220	U
95-94-3	1,2,4,5-Tetrachlorobenzene	220	U
101-55-3	4-Bromophenyl-phenylether	220	U
118-74-1	Hexachlorobenzene	220	U
1912-24-9	Atrazine	220	U
87-86-5	Pentachlorophenol	420	U
85-01-8	Phenanthrene	13.	J
120-12-7	Anthracene	220	U
86-74-8	Carbazole	220	U
84-74-2	Di-n-butylphthalate	220	U
206-44-0	Fluoranthene	9.6	J
129-00-0	Pyrene	11.	J
85-68-7	Butylbenzylphthalate	14.	J
91-94-1	3,3'-Dichlorobenzidine	220	U
56-55-3	Benzo(a)anthracene	11.	J
218-01-9	Chrysene	12.	J
117-81-7	Bis(2-ethylhexyl)phthalate	760	B
117-84-0	Di-n-octylphthalate	220	U
205-99-2	Benzo(b)fluoranthene	18.	J
207-08-9	Benzo(k)fluoranthene	220	U
50-32-8	Benzo(a)pyrene	13.	J
193-39-5	Indeno(1,2,3-cd)pyrene	220	U
53-70-3	Dibenzo(a,h)anthracene	220	U
191-24-2	Benzo(g,h,i)perylene	220	U
86-90-2	2,3,4,6-Tetrachlorophenol	220	5090

¹Cannot be separated from Diphenylamine

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9/25/08 SOM01.2 (6/2007)

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

J94S9

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026
 Lab Code: DATA Case No.: 37584 Mod. Ref No.: SDG No.: J94S6
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 8215001004
 Sample wt/vol: 30.0 (g/mL) g Lab File ID: NLL16C04
 Level: (LOW/MED) LOW Extraction: (Type) SONC
 % Moisture: 21. Decanted: (Y/N) N Date Received: 08/02/2008
 Concentrated Extract Volume: 500. (uL) Date Extracted: 08/04/2008
 Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 08/15/2008
 GPC Cleanup: (Y/N) Y pH: 8.4 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01 100020-99-0	Bicyclo[3.2.0]hept-2-ene, 2-isopropylidene	6.41	110	JN
02 57-10-3	n-Hexadecanoic acid	11.92	120	JN
03 6971-40-0	17-Pentatriacontene	12.92	87.	JN
04 100015-92-0	Undecanamide, 11-bromo-	13.46	220	JN
05 483-65-8	Phenanthrene, 1-methyl-7-(1-methylethyl)	13.84	140	JN
06 90949-53-4	7-Nonenamide	14.41	190	JN
07 638-58-4	Tetradecanamide	14.52	93.	JN
08 10394-57-7	Phenanthrene, 9-butyl-	14.72	88.	JN
09 21078-65-9	1-Decanol, 2-ethyl-	14.98	260	JN
10 3748-83-2	Pyridine, pentamethyl-	15.21	180	JN
11 65208-15-3	1-Piperazinamine, 4-methyl-, dihydrochloride	15.30	120	JN
12 100018-99-0	1-Methyl-4-isopropylcyclohexene, 6-aceta	15.74	130	JN
13 39828-25-6	2H-1-Benzopyran-7-ol, 3,4-dihydro-5-meth	16.07	110	JN
14 3322-62-1	9-Octadecenamide	16.21	170	JN
15 7683-64-9	Squalene	16.38	150	JN
16 100020-92-0	4,7,7-Trimethylbicyclo[2.2.1]heptan-2-on	16.61	230	JN
17 931-96-4	3-Cyclohexene-1-carboxaldehyde, 1-methyl	16.70	100	JN
18 100013-95-0	2-(1-Hydroxycyclohexyl)-furan	17.29	120	JN
19 69239-72-1	5,9-Dimethyl-2-(1-methylethylidene)-1-cy	17.47	170	JN
20 2000-72-8	3-Methoxy-D-homoestra-1,3,5(10),8-tetrae	17.66	340	JN
21 100010-93-0	5-Bromo-4-oxo-4,5,6,7-tetrahydrobenzofur	17.82	120	JN
22 100557-82-2	4,7-Methanoisobenzofuran-1-ol, 1,3,3a,4,	17.95	120	JN
23 5427-02-1	2,6-Bis(1,1-dimethylethyl)-4-isopropylid	18.11	120	JN
24 66465-62-1	7-Oxabicyclo[2.2.1]heptane, 2-(2-butenyl	19.09	210	JN
25 21368-68-3	Bicyclo[2.2.1]heptan-2-one, 1,7,7-trimet	20.24	110	JN
26 65953-34-6	9-Borabicyclo[3.3.1]non-9-amine, N-9-bor	21.86	310	JN
27 100013-94-0	2-p-Nitrophenyl-oxadiazol-1,3,4-one-5	23.51	94.	JN
28 100013-97-0	3,11-Dioxa-7-thia-17-azabicyclo(11,3,1)h	23.91	88.	JN
29				
30 E966796 ^a	Total Alkanes	N/A	1500	JN

^aEPA-designated Registry Number.

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9/25/08 SOM01.2 (6/2007)

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J94TO

Lab Name: DataChem Laboratories, Inc.

Contract: EP-W-05-026

Lab Code: DATAC Case No.: 37584 Mod. Ref No.: SDG No.: J94S6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 8215001005

Sample wt/vol: 30.0 (g/mL) g Lab File ID: NLL26C05

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 7.4 Decanted: (Y/N) N Date Received: 08/02/2008

Concentrated Extract Volume: 500. (uL) Date Extracted: 08/04/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 08/16/2008

GPC Cleanup: (Y/N) Y pH: 7.5 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg)	ug/kg	Q
100-52-7	Benzaldehyde	140	J	Q
108-95-2	Phenol	180	U	
111-44-4	Bis(2-chloroethyl)ether	180	U	
95-57-8	2-Chlorophenol	180	U	
95-48-7	2-Methylphenol	180	U	
108-60-1	2,2'-Oxybis(1-chloropropane)	180	U	
98-86-2	Acetophenone	22.	J	Q
106-44-5	4-Methylphenol	180	U	
621-64-7	N-Nitroso-di-n-propylamine	180	UJ	
67-72-1	Hexachloroethane	180	U	
98-95-3	Nitrobenzene	180	UJ	
78-59-1	Isophorone	180	UJ	
88-75-5	2-Nitrophenol	180	U	
105-67-9	2,4-Dimethylphenol	180	U	
111-91-1	Bis(2-chloroethoxy)methane	180	U	
120-83-2	2,4-Dichlorophenol	180	U	
91-20-3	Naphthalene	11.	J	Q
106-47-8	4-Chloroaniline	180	UJ	
87-68-3	Hexachlorobutadiene	180	U	
105-60-2	Caprolactam	180	U	
59-50-7	4-Chloro-3-methylphenol	180	U	
91-57-6	2-Methylnaphthalene	11.	J	Q
77-47-4	Hexachlorocyclopentadiene	180	UJ	
88-06-2	2,4,6-Trichlorophenol	180	U	
95-95-4	2,4,5-Trichlorophenol	180	U	
92-52-4	1,1'-Biphenyl	180	U	
91-58-7	2-Chloronaphthalene	180	U	
88-74-4	2-Nitroaniline	360	UJ	
131-11-3	Dimethylphthalate	180	U	
606-20-2	2,6-Dinitrotoluene	180	U	
208-96-8	Acenaphthylene	180	U	
99-09-2	3-Nitroaniline	360	U	
83-32-9	Acenaphthene	180	U	

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SOM01.2 (6/2007)

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J94T0

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026
 Lab Code: DATAC Case No.: 37584 Mod. Ref No.: SDG No.: J94S6
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 8215001005
 Sample wt/vol: 30.0 (g/mL) g Lab File ID: NLL26C05
 Level: (LOW/MED) LOW Extraction: (Type) SONC
 % Moisture: 7.4 Decanted: (Y/N) N Date Received: 08/02/2008
 Concentrated Extract Volume: 500. (uL) Date Extracted: 08/04/2008
 Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 08/16/2008
 GPC Cleanup: (Y/N) Y pH: 7.5 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	360	U
100-02-7	4-Nitrophenol	360	U
132-64-9	Dibenzofuran	180	U
121-14-2	2,4-Dinitrotoluene	60.	J
84-66-2	Diethylphthalate	180	U
86-73-7	Fluorene	180	U
7005-72-3	4-Chlorophenyl-phenylether	180	U
100-01-6	4-Nitroaniline	360	U
534-52-1	4,6-Dinitro-2-methylphenol	360	U
86-30-6	N-Nitrosodiphenylamine ¹	13.	J
95-94-3	1,2,4,5-Tetrachlorobenzene	180	U
101-55-3	4-Bromophenyl-phenylether	180	U
118-74-1	Hexachlorobenzene	180	U
1912-24-9	Atrazine	180	U
87-86-5	Pentachlorophenol	360	U
85-01-8	Phenanthrene	16.	J
120-12-7	Anthracene	180	U
86-74-8	Carbazole	180	U
84-74-2	Di-n-butylphthalate	15.	J
206-44-0	Fluoranthene	16.	J
129-00-0	Pyrene	20.	J
85-68-7	Butylbenzylphthalate	180	U
91-94-1	3,3'-Dichlorobenzidine	180	U
56-55-3	Benzo(a)anthracene	13.	J
218-01-9	Chrysene	21.	J
117-81-7	Bis(2-ethylhexyl)phthalate	500	J
117-84-0	Di-n-octylphthalate	180	U
205-99-2	Benzo(b)fluoranthene	25.	J
207-08-9	Benzo(k)fluoranthene	7.2	J
50-32-8	Benzo(a)pyrene	16.	J
193-39-5	Indeno(1,2,3-cd)pyrene	18.	J
53-70-3	Dibenzo(a,h)anthracene	180	U
191-24-2	Benzo(g,h,i)perylene	11.	J
58-90-2	2,3,4,6-Tetrachlorophenol	180	558U

¹Cannot be separated from Diphenylamine

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96518 60M01.2 (6/2007)

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

J94TO

Lab Name: DataChem Laboratories, Inc.	Contract: EP-W-05-026	
Lab Code: DATAAC	Case No.: 37584	Mod. Ref No.: SDG No.: J94S6
Matrix: (SOIL/SED/WATER) SOIL	Lab Sample ID: 8215001005	
Sample wt/vol: 30.0 (g/mL) g	Lab File ID: NLL26C05	
Level: (LOW/MED) LOW	Extraction: (Type) SONC	
% Moisture: 7.4	Date Received: 08/02/2008	
Concentrated Extract Volume: 500. (uL)	Date Extracted: 08/04/2008	
Injection Volume: 1.0 (uL) GPC Factor: 2.0	Date Analyzed: 08/16/2008	
GPC Cleanup: (Y/N) Y pH: 7.5	Dilution Factor: 1.0	

CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01 483-78-3	Naphthalene, 1,6-dimethyl-4-(1-methyleth	9.75	110	JN
02 112-80-1	Oleic Acid	13.20	120	JN
03 629-96-9	1-Eicosanol	14.07	370	JN
04 20257-95-8	Octanoic acid, 8-hydroxy-, methyl ester	14.23	120	JN
05 43022-02-2	2-Propanone, 1-(3,4,5-trimethoxyphenyl)-	14.38	230	JN
06 124-25-4	Tetradecanal	14.70	120	JN
07 2461-18-9	Oxirane, [(dodecyloxy)methyl]-	14.97	730	JN
08 2765-11-9	Pentadecanal-	15.52	340	JN
09 100012-93-0	Ethyl dodecyl ether	16.21	110	JN
10 100013-95-0	16-Heptadecenal	16.50	570	JN
11 1599-67-3	1-Docosene	16.86	1400	JN
12 484-47-9	1H-Imidazole, 2,4,5-triphenyl-	17.66	350	JN
13 638-66-4	Octadecanal	17.80	240	JN
14 6971-40-0	17-Pentatriacontene	18.35	290	JN
15 100020-97-0	6-Methoxy-4-methyl-5-[6-methyl-3-pyridin	18.93	110	JN
16 33527-93-4	Pyrrolidine, 1-(1-oxobutyl)-	19.17	180	JN
17 100013-98-0	Aniline, N-(3-butyl-2(Z),4-pentadienyl)-	19.78	530	JN
18 100015-96-0	Diisopropylketone-p-tosylhydrazone	20.07	140	JN
19 489-29-2	1H-Cyclopropa[a]naphthalene, 1a,2,3,3a,4	20.27	760	JN
20 83-47-6	.gamma.-Sitosterol	20.82	1300	JN
21 100013-98-0	Bicyclo[3.3.0]octan-3-one, 6-exo-bromo-2	21.02	160	JN
22 100020-97-0	N(5)-[(3,4-Dichlorophenyl)methyl]-2,4,5-	21.32	130	JN
23 100011-94-0	Benzoic acid, 2-[2-isobutynitrilyl]-3,4,	21.49	290	JN
24 100012-99-0	Sulfanilamide tri-methyl derivative	21.64	390	JN
25 3347-22-6	Dithianone	21.85	190	JN
26 3457-83-8	4-Cyclopentene-1,3-dione, 2,4,5-tripheny	22.01	140	JN
27 100020-98-0	Exo-tricyclo[5.2.1.0(2.6)]decane	22.08	140	JN
28 604-39-7	Androst-4-en-3-one, 17-hydroxy-, (10.alp	22.64	1200	JN
29 100014-91-0	Carbamic acid, N-(1-naphthyl)-, 1-butyn-	22.82	190	JN
30 935-69-3	7H-Purin-6-amine, 7-methyl-	23.32	99.	JN
E966796 ^a	Total Alkanes	N/A	3700	JN

^aEPA-designated Registry Number.

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1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J94T1

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026
 Lab Code: DATA Case No.: 37584 Mod. Ref No.: SDG No.: J94S6
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 8215001006
 Sample wt/vol: 30.0 (g/mL) g Lab File ID: NLL07C06
 Level: (LOW/MED) LOW Extraction: (Type) SONC
 % Moisture: 9.6 Decanted: (Y/N) N Date Received: 08/02/2008
 Concentrated Extract Volume: 500. (uL) Date Extracted: 08/04/2008
 Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 08/15/2008
 GPC Cleanup: (Y/N) Y pH: 8.6 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg)	ug/kg	Q
100-52-7	Benzaldehyde		12.	J
108-95-2	Phenol		190	U
111-44-4	Bis(2-chloroethyl)ether		190	U
95-57-8	2-Chlorophenol		190	U
95-48-7	2-Methylphenol		190	U
108-60-1	2,2'-Oxybis(1-chloropropane)		190	U
98-86-2	Acetophenone		14.	J
106-44-5	4-Methylphenol		190	U
621-64-7	N-Nitroso-di-n-propylamine		190	U
67-72-1	Hexachloroethane		190	U
98-95-3	Nitrobenzene		190	U
78-59-1	Isophorone		190	U
88-75-5	2-Nitrophenol		190	U
105-67-9	2,4-Dimethylphenol		190	U
111-91-1	Bis(2-chloroethoxy)methane		190	U
120-83-2	2,4-Dichlorophenol		190	U
91-20-3	Naphthalene		190	U
106-47-8	4-Chloroaniline		190	U
87-68-3	Hexachlorobutadiene		190	U
105-60-2	Caprolactam		190	U
59-50-7	4-Chloro-3-methylphenol		190	U
91-57-6	2-Methylnaphthalene		190	U
77-47-4	Hexachlorocyclopentadiene		190	U
88-06-2	2,4,6-Trichlorophenol		190	U
95-95-4	2,4,5-Trichlorophenol		190	U
92-52-4	1,1'-Biphenyl		190	U
91-58-7	2-Chloronaphthalene		190	U
88-74-4	2-Nitroaniline		360	U
131-11-3	Dimethylphthalate		190	U
606-20-2	2,6-Dinitrotoluene		190	U
208-96-8	Acenaphthylene		190	U
99-09-2	3-Nitroaniline		360	U
83-32-9	Acenaphthene		190	U

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SOM01.2 (6/2007)

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J94T1

Lab Name: <u>DataChem Laboratories, Inc.</u>	Contract: <u>EP-W-05-026</u>			
Lab Code: <u>DATAC</u>	Case No.: <u>37584</u>	Mod. Ref No.: _____	SDG No.: <u>J94S6</u>	
Matrix: (SOIL/SED/WATER) <u>SOIL</u>	Lab Sample ID: <u>8215001006</u>			
Sample wt/vol: <u>30.0</u> (g/mL) <u>g</u>	Lab File ID: <u>NLL07C06</u>			
Level: (LOW/MED) <u>LOW</u>	Extraction: (Type) <u>SONC</u>			
% Moisture: <u>9.6</u>	Decanted: (Y/N) <u>N</u>	Date Received: <u>08/02/2008</u>		
Concentrated Extract Volume: <u>500.</u> (uL)	Date Extracted: <u>08/04/2008</u>			
Injection Volume: <u>1.0</u> (uL)	GPC Factor: <u>2.0</u>	Date Analyzed: <u>08/15/2008</u>		
GPC Cleanup: (Y/N) <u>Y</u>	pH: <u>8.6</u>	Dilution Factor: <u>1.0</u>		

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	360	U
100-02-7	4-Nitrophenol	360	U
132-64-9	Dibenzofuran	190	U
121-14-2	2,4-Dinitrotoluene	190	U
84-66-2	Diethylphthalate	190	U
86-73-7	Fluorene	190	U
7005-72-3	4-Chlorophenyl-phenylether	190	U
100-01-6	4-Nitroaniline	360	U
534-52-1	4,6-Dinitro-2-methylphenol	360	U
86-30-6	N-Nitrosodiphenylamine ¹	190	U
95-94-3	1,2,4,5-Tetrachlorobenzene	190	U
101-55-3	4-Bromophenyl-phenylether	190	U
118-74-1	Hexachlorobenzene	190	U
1912-24-9	Atrazine	190	U
87-86-5	Pentachlorophenol	360	U
85-01-8	Phenanthrene	190	U
120-12-7	Anthracene	190	U
86-74-8	Carbazole	190	U
84-74-2	Di-n-butylphthalate	190	U
206-44-0	Fluoranthene	190	U
129-00-0	Pyrene	190	U
85-68-7	Butylbenzylphthalate	190	U
91-94-1	3,3'-Dichlorobenzidine	190	U
56-55-3	Benzo(a)anthracene	190	U
218-01-9	Chrysene	190	U
117-81-7	Bis(2-ethylhexyl)phthalate	570	B
117-84-0	Di-n-octylphthalate	190	U
205-99-2	Benzo(b)fluoranthene	190	U
207-08-9	Benzo(k)fluoranthene	190	U
50-32-8	Benzo(a)pyrene	190	U
193-39-5	Indeno(1,2,3-cd)pyrene	190	U
53-70-3	Dibenzo(a,h)anthracene	190	U
191-24-2	Benzo(g,h,i)perylene	190	U
58-90-2	2,3,4,6-Tetrachlorophenol	190	15U

¹Cannot be separated from Diphenylamine

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9/25/08 SOM01.2 (6/2007)

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

J94T1

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026
 Lab Code: DATAC Case No.: 37584 Mod. Ref No.: SDG No.: J94S6
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 8215001006
 Sample wt/vol: 30.0 (g/mL) g Lab File ID: NLL07C06
 Level: (LOW/MED) LOW Extraction: (Type) SONC
 % Moisture: 9.6 Decanted: (Y/N) N Date Received: 08/02/2008
 Concentrated Extract Volume: 500. (uL) Date Extracted: 08/04/2008
 Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 08/15/2008
 GPC Cleanup: (Y/N) Y pH: 8.6 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01 100011-92-0	1,3-Diaza-5,6-dedihydrocyclohexan-4-one-	6.41	160	JN
02 4101-68-2	Decane, 1,10-dibromo-	14.99	100	JN
03 90949-53-4	7-Nonenamide	16.22	74.	JN
04 85-44-9	Phthalic anhydride	17.67	220	JN
05 25826-85-1	5.beta.,7.beta.H,10.alpha.-Eudesm-11-en-	19.66	120	JN
06 100013-91-0	1,3-Diphenyl-2H-pyridazino(6,1-a)isoquin	20.34	79.	JN
07 104576-48-9	Xanthine, 1,3-diethyl-8-[4-[[[ethylamino	21.85	250	JN
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
E966796 ²	Total Alkanes	N/A	160	JN

²EPA-designated Registry Number.

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SOM01.2 (6/2007)

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J94T2

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026
 Lab Code: DATA~~C~~ Case No.: 37584 Mod. Ref No.: SDG No.: J94S6
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 8215001007
 Sample wt/vol: 30.0 (g/mL) g Lab File ID: NLL17C07
 Level: (LOW/MED) LOW Extraction: (Type) SONC
 % Moisture: 3.7 Decanted: (Y/N) N Date Received: 08/02/2008
 Concentrated Extract Volume: 500. (uL) Date Extracted: 08/04/2008
 Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 08/15/2008
 GPC Cleanup: (Y/N) Y pH: 7.2 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	52.	JQ
108-95-2	Phenol	16.	JQ
111-44-4	Bis(2-chloroethyl)ether	180	U
95-57-8	2-Chlorophenol	180	U
95-48-7	2-Methylphenol	180	U
108-60-1	2,2'-Oxybis(1-chloropropane)	180	U
98-86-2	Acetophenone	19.	JQ
106-44-5	4-Methylphenol	180	U
621-64-7	N-Nitroso-di-n-propylamine	180	UT
67-72-1	Hexachloroethane	180	U
98-95-3	Nitrobenzene	180	UT
78-59-1	Isophorone	180	UT
88-75-5	2-Nitrophenol	180	U
105-67-9	2,4-Dimethylphenol	180	U
111-91-1	Bis(2-chloroethoxy)methane	180	U
120-83-2	2,4-Dichlorophenol	180	U
91-20-3	Naphthalene	12.	JQ
106-47-8	4-Chloroaniline	180	U
87-68-3	Hexachlorobutadiene	180	U
105-60-2	Caprolactam	180	U
59-50-7	4-Chloro-3-methylphenol	180	U
91-57-6	2-Methylnaphthalene	8.6	JQ
77-47-4	Hexachlorocyclopentadiene	180	U
88-06-2	2,4,6-Trichlorophenol	180	U
95-95-4	2,4,5-Trichlorophenol	180	U
92-52-4	1,1'-Biphenyl	180	U
91-58-7	2-Chloronaphthalene	180	U
88-74-4	2-Nitroaniline	340	UT
131-11-3	Dimethylphthalate	180	U
606-20-2	2,6-Dinitrotoluene	180	U
208-96-8	Acenaphthylene	180	U
99-09-2	3-Nitroaniline	340	U
83-32-9	Acenaphthene	180	U

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SOM01.2 (6/2007)

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J94T2

Lab Name: <u>DataChem Laboratories, Inc.</u>	Contract: <u>EP-W-05-026</u>
Lab Code: <u>DATAAC</u>	Case No.: <u>37584</u> Mod. Ref No.: _____ SDG No.: <u>J94S6</u>
Matrix: (SOIL/SED/WATER) <u>SOIL</u>	Lab Sample ID: <u>8215001007</u>
Sample wt/vol: <u>30.0</u> (g/mL) <u>g</u>	Lab File ID: <u>NLL17C07</u>
Level: (LOW/MED) <u>LOW</u>	Extraction: (Type) <u>SONC</u>
% Moisture: <u>3.7</u>	Date Received: <u>08/02/2008</u>
Concentrated Extract Volume: <u>500.</u> (uL)	Date Extracted: <u>08/04/2008</u>
Injection Volume: <u>1.0</u> (uL) GPC Factor: <u>2.0</u>	Date Analyzed: <u>08/15/2008</u>
GPC Cleanup: (Y/N) <u>Y</u> pH: <u>7.2</u>	Dilution Factor: <u>1.0</u>

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	340	U
100-02-7	4-Nitrophenol	340	U
132-64-9	Dibenzofuran	180	U
121-14-2	2,4-Dinitrotoluene	180	U
84-66-2	Diethylphthalate	180	U
86-73-7	Fluorene	180	U
7005-72-3	4-Chlorophenyl-phenylether	180	U
100-01-6	4-Nitroaniline	340	U
534-52-1	4,6-Dinitro-2-methylphenol	340	U
86-30-6	N-Nitrosodiphenylamine ¹	180	U
95-94-3	1,2,4,5-Tetrachlorobenzene	180	U
101-55-3	4-Bromophenyl-phenylether	180	U
118-74-1	Hexachlorobenzene	180	U
1912-24-9	Atrazine	180	U
87-86-5	Pentachlorophenol	340	U
85-01-8	Phenanthrene	19.	JQ
120-12-7	Anthracene	180	U
86-74-8	Carbazole	180	U
84-74-2	Di-n-butylphthalate	180	U
206-44-0	Fluoranthene	21.	JQ
129-00-0	Pyrene	21.	JQ
85-68-7	Butylbenzylphthalate	180	U
91-94-1	3,3'-Dichlorobenzidine	180	U
56-55-3	Benzo(a)anthracene	13.	JQ
216-01-9	Chrysene	17.	JQ
117-81-7	Bis(2-ethylhexyl)phthalate	540	X
117-84-0	Di-n-octylphthalate	180	U
205-99-2	Benzo(b)fluoranthene	22.	JQ
207-08-9	Benzo(k)fluoranthene	5.1	JQ
50-32-8	Benzo(a)pyrene	15.	JQ
193-39-5	Indeno(1,2,3-cd)pyrene	180	U
53-70-3	Dibenzo(a,h)anthracene	180	U
191-24-2	Benzo(g,h,i)perylene	180	U
58-90-2	2,3,4,6-Tetrachlorophenol	180	631 U

¹Cannot be separated from Diphenylamine

R
9/25/08 SOM01.2 (6/2007)

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

J94T2

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026
 Lab Code: DATA_C Case No.: 37584 Mod. Ref No.: SDG No.: J94S6
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 8215001007
 Sample wt/vol: 30.0 (g/mL) g Lab File ID: NLL17C07
 Level: (LOW/MED) LOW Extraction: (Type) SONC
 % Moisture: 3.7 Decanted: (Y/N) N Date Received: 08/02/2008
 Concentrated Extract Volume: 500. (uL) Date Extracted: 08/04/2008
 Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 08/15/2008
 GPC Cleanup: (Y/N) Y pH: 7.2 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01 2765-11-9	Pentadecanal-	14.70	230	JN
02 443-72-1	1H-Purin-6-amine, N-methyl-	14.84	170	JN
03 15965-99-8	Oxirane, [(hexadecyloxy)methyl]-	14.98	740	JN
04 2396-84-1	2,4-Hexadienoic acid, ethyl ester	15.24	240	JN
05 21078-65-9	1-Decanol, 2-ethyl-	15.38	460	JN
06 100023-96-0	3-Heptafluorobutyroxytridecane	15.48	170	JN
07 124-25-4	Tetradecanal	15.53	150	JN
08 86461-71-4	1-(3-(2-Methyl-1-propyl)-2-pyrazinyl)-1-	15.57	130	JN
09 2524-90-5	Ethanone, 1-(4-methyl-1H-imidazol-2-yl)-	15.69	200	JN
10 471-84-1	Bicyclo[2.2.1]heptane, 7,7-dimethyl-2-me	15.91	280	JN
11 42236-70-4	1,13-Tridecanediol, diacetate	15.99	260	JN
12 6006-01-5	3,7,11-Tridecatrienenitrile, 4,8,12-trim	16.37	250	JN
13 100013-95-0	16-Heptadecenal	16.50	420	JN
14 55702-67-5	2-Pentanol, 5-(2-propynyloxy)-	16.68	130	JN
15 634-55-9	Ethyl 2-cyanoacetoacetate	17.49	160	JN
16 54844-27-8	D-Homoestra-1,3,5(10),15-tetraen-17a-one	17.66	270	JN
17 30689-78-2	(R)-(-)-(Z)-14-Methyl-8-hexadecen-1-ol	17.82	280	JN
18 19047-85-9	Phosphonic acid, dioctadecyl ester	18.36	610	JN
19 100018-97-0	Dodecahydropyrido[1,2-b]isoquinolin-6-on	19.21	150	JN
20 100009-98-0	d,l-trans-4-Methyl-5-methoxy-1-(1-hydrox	19.45	150	JN
21 1482-08-2	4,7-Methano-1H-indene, 1,1,2,3,3a,4,5,6,	19.83	140	JN
22 90851-05-1	Africanone	20.14	230	JN
23 100013-98-0	Humulane-1,6-dien-3-ol	20.28	1200	JN
24 40029-86-5	1H-Imidazole, 4,5-dihydro-2-(1-methyleth	20.55	130	JN
25 1111-74-6	Silane, dimethyl-	20.64	220	JN
26 83-47-6	.gamma.-Sitosterol	20.85	610	JN
27 100014-00-0	1R,4s,7s,11R-2,2,4,8-Tetramethyltricyclo	21.15	140	JN
28 18593-18-5	Phosphinic acid, (2-methylphenyl)phenyl-	21.48	250	JN
29 3013-80-7	3H-Purin-6-amine, N,N,3-trimethyl-	21.61	220	JN
30 100014-00-0	b-Homomorphinan-7-one, 5,6,8,14-tetradehy	21.84	220	JN
E966796 ²	Total Alkanes	N/A	4100	JN

²EPA-designated Registry Number.

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9/25/08

SOM01.2 (6/2007)

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J94T3

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026
 Lab Code: DATAAC Case No.: 37584 Mod. Ref. No.: SDG No.: J94S6
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 8215001008
 Sample wt/vol: 30.0 (g/mL) g Lab File ID: NLL08C08
 Level: (LOW/MED) LOW Extraction: (Type) SONC
 % Moisture: 9.2 Decanted: (Y/N) N Date Received: 08/02/2008
 Concentrated Extract Volume: 500. (uL) Date Extracted: 08/04/2008
 Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 08/15/2008
 GPC Cleanup: (Y/N) Y pH: 8.8 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/kg</u>	Q
100-52-7	Benzaldehyde	190	U
108-95-2	Phenol	190	U
111-44-4	Bis(2-chloroethyl)ether	190	U
95-57-8	2-Chlorophenol	190	U
95-48-7	2-Methylphenol	190	U
108-60-1	2,2'-Oxybis(1-chloropropane)	190	U
98-86-2	Acetophenone	14.	J
106-44-5	4-Methylphenol	190	U
621-64-7	N-Nitroso-di-n-propylamine	190	U
67-72-1	Hexachloroethane	190	U
98-95-3	Nitrobenzene	190	U
78-59-1	Isophorone	190	U
88-75-5	2-Nitrophenol	190	U
105-67-9	2,4-Dimethylphenol	190	U
111-91-1	Bis(2-chloroethoxy)methane	190	U
120-83-2	2,4-Dichlorophenol	190	U
91-20-3	Naphthalene	190	U
106-47-8	4-Chloroaniline	190	U
87-68-3	Hexachlorobutadiene	190	U
105-60-2	Caprolactam	190	U
59-50-7	4-Chloro-3-methylphenol	190	U
91-57-6	2-Methylnaphthalene	190	U
77-47-4	Hexachlorocyclopentadiene	190	U
88-06-2	2,4,6-Trichlorophenol	190	U
95-95-4	2,4,5-Trichlorophenol	190	U
92-52-4	1,1'-Biphenyl	190	U
91-58-7	2-Chloronaphthalene	190	U
88-74-4	2-Nitroaniline	360	U
131-11-3	Dimethylphthalate	190	U
606-20-2	2,6-Dinitrotoluene	190	U
208-96-8	Acenaphthylene	190	U
99-09-2	3-Nitroaniline	360	U
83-32-9	Acenaphthene	190	U

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1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J94T3

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026
 Lab Code: DATAC Case No.: 37584 Mod. Ref No.: SDG No.: J94S6
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 8215001008
 Sample wt/vol: 30.0 (g/mL) g Lab File ID: NLL08C08
 Level: (LOW/MED) LOW Extraction: (Type) SONC
 % Moisture: 9.2 Decanted: (Y/N) N Date Received: 08/02/2008
 Concentrated Extract Volume: 500. (uL) Date Extracted: 08/04/2008
 Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 08/15/2008
 GPC Cleanup: (Y/N) Y pH: 8.8 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	360	U
100-02-7	4-Nitrophenol	360	U
132-64-9	Dibenzofuran	190	U
121-14-2	2,4-Dinitrotoluene	190	U
84-66-2	Diethylphthalate	190	U
86-73-7	Fluorene	190	U
7005-72-3	4-Chlorophenyl-phenylether	190	U
100-01-6	4-Nitroaniline	360	U
534-52-1	4,6-Dinitro-2-methylphenol	360	U
86-30-6	N-Nitrosodiphenylamine ^a	190	U
95-94-3	1,2,4,5-Tetrachlorobenzene	190	U
101-55-3	4-Bromophenyl-phenylether	190	U
118-74-1	Hexachlorobenzene	190	U
1912-24-9	Atrazine	190	U
87-86-5	Pentachlorophenol	360	U
85-01-8	Phenanthrene	190	U
120-12-7	Anthracene	190	U
86-74-8	Carbazole	190	U
84-74-2	Di-n-butylphthalate	190	U
206-44-0	Fluoranthene	190	U
129-00-0	Pyrene	190	U
85-68-7	Butylbenzylphthalate	190	U
91-94-1	3,3'-Dichlorobenzidine	190	U
56-55-3	Benzo(a)anthracene	190	U
218-01-9	Chrysene	190	U
117-81-7	Bis(2-ethylhexyl)phthalate	610	U
117-84-0	Di-n-octylphthalate	190	U
205-99-2	Benzo(b)fluoranthene	190	U
207-08-9	Benzo(k)fluoranthene	190	U
50-32-8	Benzo(a)pyrene	190	U
193-39-5	Indeno(1,2,3-cd)pyrene	190	U
53-70-3	Dibenzo(a,h)anthracene	190	U
191-24-2	Benzo(g,h,i)perylene	190	U
58-90-2	2,3,4,6-Tetrachlorophenol	190	840

^aCannot be separated from Diphenylamine

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9/25/08 S0M01.2 (6/2007)

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

J94T3

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026
 Lab Code: DATA C Case No.: 37584 Mod. Ref No.: SDG No.: J94S6
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 8215001008
 Sample wt/vol: 30.0 (g/mL) g Lab File ID: NLL08C08
 Level: (LOW/MED) LOW Extraction: (Type) SONC
 % Moisture: 9.2 Decanted: (Y/N) N Date Received: 08/02/2008
 Concentrated Extract Volume: 500. (uL) Date Extracted: 08/04/2008
 Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 08/15/2008
 GPC Cleanup: (Y/N) Y pH: 8.8 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01 135-79-5	6-Isopropylquinoline	6.41	120	JN
02 23667-32-5	Benzo[c]thiophen-1(3H)-one, 3-(3-oxobenz	17.67	210	JN
03 485-47-2	Ninhydrin	21.85	200	JN
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
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29				
30				
E966796 ^a	Total Alkanes	N/A	170	JN

^aEPA-designated Registry Number.

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SOM01.2 (6/2007)

ID - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J94T4

Lab Name: DataChem Laboratories, Inc.	Contract: EP-W-05-026
Lab Code: DATAC Case No.: 37584	Mod. Ref No.: SDG No.: J94S6
Matrix: (SOIL/SED/WATER) SOIL	Lab Sample ID: 8215001011
Sample wt/vol: 30.0 (g/mL) g	Lab File ID: NLL18C11
Level: (LOW/MED) LOW	Extraction: (Type) SONG
% Moisture: 2.9	Date Received: 08/02/2008
Concentrated Extract Volume: 500. (uL)	Date Extracted: 08/04/2008
Injection Volume: 1.0 (uL) GPC Factor: 2.0	Date Analyzed: 08/15/2008
GPC Cleanup: (Y/N) Y pH: 7.0	Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	37.	J Q
108-95-2	Phenol	180	U
111-44-4	Bis(2-chloroethyl)ether	180	U
95-57-8	2-Chlorophenol	180	U
95-48-7	2-Methylphenol	180	U
108-60-1	2,2'-Oxybis(1-chloropropane)	180	U
98-86-2	Acetophenone	16.	J Q
106-44-5	4-Methylphenol	180	U
621-64-7	N-Nitroso-di-n-propylamine	180	U
67-72-1	Hexachloroethane	180	U
98-95-3	Nitrobenzene	180	U
78-59-1	Isophorone	180	U
88-75-5	2-Nitrophenol	180	U
105-67-9	2,4-Dimethylphenol	180	U
111-91-1	Bis(2-chloroethoxy)methane	180	U
120-83-2	2,4-Dichlorophenol	180	U
91-20-3	Naphthalene	8.0	J Q
106-47-8	4-Chloroaniline	180	U
87-68-3	Hexachlorobutadiene	180	U
105-60-2	Caprolactam	180	U
59-50-7	4-Chloro-3-methylphenol	180	U
91-57-6	2-Methylnaphthalene	180	U
77-47-4	Hexachlorocyclopentadiene	180	U
88-06-2	2,4,6-Trichlorophenol	180	U
95-95-4	2,4,5-Trichlorophenol	180	U
92-52-4	1,1'-Biphenyl	180	U
91-58-7	2-Chloronaphthalene	180	U
88-74-4	2-Nitroaniline	340	U
131-11-3	Dimethylphthalate	180	U
606-20-2	2,6-Dinitrotoluene	180	U
208-96-8	Acenaphthylene	180	U
39-09-2	3-Nitroaniline	340	U
83-32-9	Acenaphthene	180	U

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9/25/08 SOM01.2 (6/2007)

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J94T4

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026
 Lab Code: DATA Case No.: 37584 Mod. Ref No.: SDG No.: J94S6
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 8215001011
 Sample wt/vol: 30.0 (g/mL) g Lab File ID: NLL18C11
 Level: (LOW/MED) LOW Extraction: (Type) SONC
 % Moisture: 2.9 Decanted: (Y/N) N Date Received: 08/02/2008
 Concentrated Extract Volume: 500. (uL) Date Extracted: 08/04/2008
 Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 08/15/2008
 GPC Cleanup: (Y/N) Y pH: 7.0 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/kg</u>	Q
51-28-5	2,4-Dinitrophenol	340	U
100-02-7	4-Nitrophenol	340	U
132-64-9	Dibenzofuran	180	U
121-14-2	2,4-Dinitrotoluene	180	U
84-66-2	Diethylphthalate	180	U
86-73-7	Fluorene	180	U
7005-72-3	4-Chlorophenyl-phenylether	180	U
100-01-6	4-Nitroaniline	340	U
534-52-1	4,6-Dinitro-2-methylphenol	340	U
86-30-6	N-Nitrosodiphenylamine ¹	180	U
95-94-3	1,2,4,5-Tetrachlorobenzene	180	U
101-55-3	4-Bromophenyl-phenylether	180	U
118-74-1	Hexachlorobenzene	180	U
1912-24-9	Atrazine	180	U
87-86-5	Pentachlorophenol	340	U
85-01-8	Phenanthrene	10.	J
120-12-7	Anthracene	180	U
86-74-8	Carbazole	180	U
84-74-2	Di-n-butylphthalate	180	U
206-44-0	Fluoranthene	11.	J
129-00-0	Pyrene	13.	J
85-68-7	Butylbenzylphthalate	180	U
91-94-1	3,3'-Dichlorobenzidine	180	U
56-55-3	Benzo(a)anthracene	180	U
218-01-9	Chrysene	180	U
117-81-7	Bis(2-ethylhexyl)phthalate	540	X
117-84-0	Di-n-octylphthalate	180	U
205-99-2	Benzo(b)fluoranthene	11.	J
207-08-9	Benzo(k)fluoranthene	180	U
50-32-8	Benzo(a)pyrene	7.2	J
193-39-5	Indeno(1,2,3-cd)pyrene	180	U
53-70-3	Dibenzo(a,h)anthracene	180	U
191-24-2	Benzo(g,h,i)perylene	180	U
58-90-2	2,3,4,6-Tetrachlorophenol	180	95 U

¹Cannot be separated from Diphenylamine

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9/25/08 S0M01.2 (6/2007)

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

J94T4

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026
 Lab Code: DATA~~C~~ Case No.: 37584 Mod. Ref No.: SDG No.: J94S6
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 8215001011
 Sample wt/vol: 30.0 (g/mL) g Lab File ID: NLL18C11
 Level: (LOW/MED) LOW Extraction: (Type) SONC
 % Moisture: 2.9 Decanted: (Y/N) N Date Received: 08/02/2008
 Concentrated Extract Volume: 500. (uL) Date Extracted: 08/04/2008
 Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 08/15/2008
 GPC Cleanup: (Y/N) Y pH: 7.0 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	544-63-8	Tetradecanoic acid	11.91	130	JN
02	36653-82-4	1-Hexadecanol	14.07	360	JN
03	7735-42-4	1,16-Hexadecanediol	14.70	100	JN
04	2461-18-9	Oxirane, [(dodecyloxy)methyl]-	14.98	650	JN
05	100011-95-0	Imidazole, 2-methylamino-	15.22	140	JN
06	124-25-4	Tetradecanal	15.52	170	JN
07	6929-04-0	Hexadecanoic acid, 15-methyl-, methyl est	15.93	90.	JN
08	6090-09-1	4-Acetyl-1-methylcyclohexene	16.09	160	JN
09	1117-52-8	5,9,13-Pentadecatrien-2-one, 6,10,14-tri-	16.37	210	JN
10	638-66-4	Octadecanal	16.49	210	JN
11	100020-94-0	4-n-Butylthiane, S,S-dioxide	16.58	100	JN
12	36653-82-4	1-Hexadecanol	16.87	790	JN
13	484-47-9	1H-Imidazole, 2,4,5-triphenyl-	17.67	350	JN
14	21964-51-2	1,15-Hexadecadiene	17.81	190	JN
15	506-52-5	1-Hexacosanol	18.36	270	JN
16	103-78-6	2-Propanone, 1-cyclohexyl-	18.44	120	JN
17	5391-40-2	2-Imidazolidinone, 1,3-diacetyl-	19.17	95.	JN
18	67666-31-3	2H-Pyran-2-methanol, 3,4-dihydro-, metha	19.70	110	JN
19	85896-60-2	S-(7-Methyl-1-naphthyl)cysteine	19.84	260	JN
20	16096-32-5	1H-Indole, 4-methyl-	20.12	250	JN
21	100013-98-0	Humulane-1,6-dien-3-ol	20.29	2100	JN
22	629-66-3	2-Nonadecanone	20.65	120	JN
23	83-47-6	.gamma.-Sitosterol	20.84	770	JN
24	473-13-2	Naphthalene, 1,2,3,4,4a,5,6,8a-octahydro	21.15	100	JN
25	30882-65-6	Pregn-4-en-3-one, 20,21-[(methyleneboryl	21.31	100	JN
26	15404-32-7	Naphtho[2,3-b]furan-9(4H)-one, 4a,5,6,7,	21.48	210	JN
27	104576-48-9	Xanthine, 1,3-diethyl-8-[4-[[ethylamino	21.83	220	JN
28	100019-99-0	9a-Benzyl-4b,9a-dihydroindeno[1,2-a]inde	22.00	91.	JN
29	100010-92-0	Cyclohexano[a]naphthalene, 7,8-difluoro[22.20	150	JN
30	1058-61-3	Stigmast-4-en-3-one	22.65	550	JN
	E966796 ²	Total Alkanes	N/A	3300	JN

²EPA-designated Registry Number.

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9/25/08 SOM01.2 (6/2007)

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J94T5

Lab Name: <u>DataChem Laboratories, Inc.</u>	Contract: <u>EP-W-05-026</u>			
Lab Code: <u>DATAC</u>	Case No.: <u>37584</u>	Mod. Ref No.: _____	SDG No.: <u>J94S6</u>	
Matrix: (SOIL/SED/WATER) <u>SOIL</u>	Lab Sample ID: <u>8215001012</u>			
Sample wt/vol: <u>30.0</u> (g/mL) <u>g</u>	Lab File ID: <u>NLL27C12</u>			
Level: (LOW/MED) <u>LOW</u>	Extraction: (Type) <u>SONC</u>			
% Moisture: <u>3.9</u>	Decanted: (Y/N) <u>N</u>	Date Received: <u>08/02/2008</u>		
Concentrated Extract Volume: <u>500.</u> (uL)	Date Extracted: <u>08/04/2008</u>			
Injection Volume: <u>1.0</u> (uL)	GPC Factor: <u>2.0</u>	Date Analyzed: <u>08/16/2008</u>		
GPC Cleanup: (Y/N) <u>Y</u>	pH: <u>7.3</u>	Dilution Factor: <u>1.0</u>		

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	38.	JQ
108-95-2	Phenol	180	U
111-44-4	Bis(2-chloroethyl)ether	180	U
95-57-8	2-Chlorophenol	180	U
95-48-7	2-Methylphenol	180	U
108-60-1	2,2'-Oxybis(1-chloropropane)	180	U
98-86-2	Acetophenone	22.	JQ
106-44-5	4-Methylphenol	180	U
621-64-7	N-Nitroso-di-n-propylamine	180	UJ
67-72-1	Hexachloroethane	180	U
98-95-3	Nitrobenzene	180	UJ
78-59-1	Isophorone	180	UJ
88-75-5	2-Nitrophenol	180	U
105-67-9	2,4-Dimethylphenol	180	U
111-91-1	Bis(2-chloroethoxy)methane	180	U
120-83-2	2,4-Dichlorophenol	180	U
91-20-3	Naphthalene	34.	JQ
106-47-8	4-Chloroaniline	180	UJ
87-68-3	Hexachlorobutadiene	180	U
105-60-2	Caprolactam	180	U
59-50-7	4-Chloro-3-methylphenol	180	U
91-57-6	2-Methylnaphthalene	31.	JQ
77-47-4	Hexachlorocyclopentadiene	180	UJ
68-06-2	2,4,6-Trichlorophenol	180	U
95-95-4	2,4,5-Trichlorophenol	180	U
92-52-4	1,1'-Biphenyl	6.1	JQ
91-58-7	2-Chloronaphthalene	180	U
88-74-4	2-Nitroaniline	340	UJ
131-11-3	Dimethylphthalate	180	U
606-20-2	2,6-Dinitrotoluene	180	U
208-96-8	Acenaphthylene	180	U
99-09-2	3-Nitroaniline	340	U
83-32-9	Acenaphthene	180	U

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1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J94T5

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026
 Lab Code: DATA~~C~~ Case No.: 37584 Mod. Ref No.: SDG No.: J94S6
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 8215001012
 Sample wt/vol: 30.0 (g/mL) g Lab File ID: NLL27C12
 Level: (LOW/MED) LOW Extraction: (Type) SONC
 % Moisture: 3.9 Decanted: (Y/N) N Date Received: 08/02/2008
 Concentrated Extract Volume: 500. (uL) Date Extracted: 08/04/2008
 Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 08/16/2008
 GPC Cleanup: (Y/N) Y pH: 7.3 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	340	U
100-02-7	4-Nitrophenol	340	U
132-64-9	Dibenzofuran	8.4	JQ
121-14-2	2,4-Dinitrotoluene	180	U
84-66-2	Diethylphthalate	180	U
86-73-7	Fluorene	180	U
7005-72-3	4-Chlorophenyl-phenylether	180	U
100-01-6	4-Nitroaniline	340	U
534-52-1	4,6-Dinitro-2-methylphenol	340	U
86-30-6	N-Nitrosodiphenylamine ¹	180	U
95-94-3	1,2,4,5-Tetrachlorobenzene	180	U
101-55-3	4-Bromophenyl-phenylether	180	U
118-74-1	Hexachlorobenzene	180	U
1912-24-9	Atrazine	180	U
87-86-5	Pentachlorophenol	340	U
85-01-8	Phenanthrene	35.	JQ
120-12-7	Anthracene	10.	JQ
86-74-8	Carbazole	180	U
84-74-2	Di-n-butylphthalate	61.	JQ
206-44-0	Fluoranthene	30.	JQ
129-00-0	Pyrene	39.	JQ
85-68-7	Butylbenzylphthalate	180	U
91-94-1	3,3'-Dichlorobenzidine	180	U
56-55-3	Benzo(a)anthracene	27.	JQ
218-01-9	Chrysene	44.	JQ
117-81-7	Bis(2-ethylhexyl)phthalate	550	F
117-84-0	Di-n-octylphthalate	180	U
205-99-2	Benzo(b)fluoranthene	48.	JQ
207-08-9	Benzo(k)fluoranthene	12.	JQ
50-32-8	Benzo(a)pyrene	26.	JQ
193-39-5	Indeno(1,2,3-cd)pyrene	33.	JQ
53-70-3	Dibenzo(a,h)anthracene	180	U
191-24-2	Benzo(g,h,i)perylene	29.	JQ
56-90-2	2,3,4,6-Tetrachlorophenol	180	46 U

¹Cannot be separated from Diphenylamine

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9/25/08 SOM01.2 (6/2007)

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

J94T5

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026
 Lab Code: DATAAC Case No.: 37584 Mod. Ref No.: SDG No.: J94S6
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 8215001012
 Sample wt/vol: 30.0 (g/mL) g Lab File ID: NLL27C12
 Level: (LOW/MED) LOW Extraction: (Type) SONC
 % Moisture: 3.9 Decanted: (Y/N) N Date Received: 08/02/2008
 Concentrated Extract Volume: 500. (uL) Date Extracted: 08/04/2008
 Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 08/16/2008
 GPC Cleanup: (Y/N) Y pH: 7.3 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01 100023-92-0	Methoxy(methyl)chlorosilane	4.91	220	JN
02 71153-30-5	Cyclopropene, 3-methyl-3-vinyl-	5.18	280	JN
03 100014-94-0	cis-Ocimene, 8-oxo-	5.60	110	JN
04 829-26-5	Naphthalene, 2,3,6-trimethyl-	8.81	160	JN
05 483-78-3	Naphthalene, 1,6-dimethyl-4-(1-methylethyl)	9.75	210	JN
06 483-65-8	Phenanthrene, 1-methyl-7-(1-methylethyl)	13.82	150	JN
07 100017-93-0	7-Oxo-2-oxa-7-thiatricyclo[4.4.0.0(3,8)]	14.14	120	JN
08 591-27-5	Phenol, 3-amino-	14.26	140	JN
09 100020-98-0	4-[4-Cyanothiophenoxy]benzaldehyde	14.38	200	JN
10 5466-88-6	2H-1,4-Benzoxazin-3(4H)-one	15.23	140	JN
11 100018-92-0	2-Cyclohexyl-8a-methyl-4-methylene-octah	15.63	220	JN
12 100021-93-0	2-[a-(4-Bromoanilino)-4-hydroxybensyl]-4	16.19	120	JN
13 100013-00-0	Z-10-Pentadecen-1-ol	16.50	310	JN
14 1599-67-3	1-Docosene	16.87	870	JN
15 104502-47-8	2(5H)-Furanone, 3-bromo-5-((dimethylamin	16.94	190	JN
16 92-67-1	[1,1'-Biphenyl]-4-amine	17.10	110	JN
17 2000-72-8	3-Methoxy-D-homoestra-1,3,5(10),8-tetrae	17.66	370	JN
18 100012-92-0	E-11(13,13-Dimethyl)tetradecen-1-ol acet	17.82	170	JN
19 3452-07-1	1-Eicosene	18.35	230	JN
20 100021-00-0	3,5-Pyridine-diamidoxime	18.65	130	JN
21 2808-12-0	Cyclohexaneacetic acid, 3-oxo-, methyl e	18.76	140	JN
22 55590-92-6	Benzeneacetic acid, 3-methoxy-4-[(trimet	19.78	110	JN
23 82912-43-4	2-(2-Propenyl)-1,4-benzodioxin	19.82	110	JN
24 83-34-1	1H-Indole, 3-methyl-	20.09	140	JN
25 1209-71-8	2-Naphthalenemethanol, 1,2,3,4,4a,5,6,7-	20.26	860	JN
26 83-47-6	.gamma.-Sitosterol	20.81	470	JN
27 72088-09-6	Silanamine, N-[2,6-dimethyl-4-[(trimethy	21.00	170	JN
28 475-20-7	1,4-Methanoazulene, decahydro-4,8,8-trim	21.47	250	JN
29 3347-22-6	Dithianone	21.85	110	JN
30 100011-93-0	Ethyl .alpha.-oximidostearate	21.98	170	JN
E966796 ²	Total Alkanes	N/A	4100	JN

²EPA-designated Registry Number.

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1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J94T6

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026
 Lab Code: DATAC Case No.: 37584 Mod. Ref No.: SDG No.: J94S6
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 8215001013
 Sample wt/vol: 30.0 (g/mL) g Lab File ID: NLL19C13
 Level: (LOW/MED) LOW Extraction: (Type) SONC
 % Moisture: 11. Decanted: (Y/N) N Date Received: 08/02/2008
 Concentrated Extract Volume: 500. (uL) Date Extracted: 08/04/2008
 Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 08/15/2008
 GPC Cleanup: (Y/N) Y pH: 8.3 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/kg</u>	Q
100-52-7	Benzaldehyde	53.	J Q
108-95-2	Phenol	12.	J Q
111-44-4	Bis(2-chloroethyl)ether	190	U
95-57-8	2-Chlorophenol	190	U
95-48-7	2-Methylphenol	190	U
108-60-1	2,2'-Oxybis(1-chloropropane)	190	U
98-86-2	Acetophenone	16.	J Q
106-44-5	4-Methylphenol	190	U
621-64-7	N-Nitroso-di-n-propylamine	190	U T
67-72-1	Hexachloroethane	190	U
98-95-3	Nitrobenzene	190	U T
78-59-1	Isophorone	190	U T
88-75-5	2-Nitrophenol	190	U
105-67-9	2,4-Dimethylphenol	190	U
111-91-1	Bis(2-chloroethoxy)methane	190	U
120-83-2	2,4-Dichlorophenol	190	U
91-20-3	Naphthalene	190	U
106-47-8	4-Chloroaniline	190	U
87-68-3	Hexachlorobutadiene	190	U
105-60-2	Caprolactam	190	U
59-50-7	4-Chloro-3-methylphenol	190	U
91-57-6	2-Methylnaphthalene	190	U
77-47-4	Hexachlorocyclopentadiene	190	U
88-06-2	2,4,6-Trichlorophenol	190	U
95-95-4	2,4,5-Trichlorophenol	190	U
92-52-4	1,1'-Biphenyl	190	U
91-58-7	2-Chloronaphthalene	190	U
88-74-4	2-Nitroaniline	370	U T
131-11-3	Dimethylphthalate	190	U
606-20-2	2,6-Dinitrotoluene	190	U
208-96-8	Acenaphthylene	190	U
99-09-2	3-Nitroaniline	370	U
83-32-9	Acenaphthene	190	U

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1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J94T6

Lab Name: <u>DataChem Laboratories, Inc.</u>	Contract: <u>EP-W-05-026</u>		
Lab Code: <u>DATAC</u>	Case No.: <u>37584</u>	Mod. Ref No.: _____	SDG No.: <u>J94S6</u>
Matrix: (SOIL/SED/WATER) <u>SOIL</u>	Lab Sample ID: <u>8215001013</u>		
Sample wt/vol: <u>30.0</u> (g/mL) <u>g</u>	Lab File ID: <u>NLL19C13</u>		
Level: (LOW/MED) <u>LOW</u>	Extraction: (Type) <u>SONC</u>		
% Moisture: <u>11.</u>	Decanted: (Y/N) <u>N</u>	Date Received: <u>08/02/2008</u>	
Concentrated Extract Volume: <u>500.</u> (uL)	Date Extracted: <u>08/04/2008</u>		
Injection Volume: <u>1.0</u> (uL)	GPC Factor: <u>2.0</u>	Date Analyzed: <u>08/15/2008</u>	
GPC Cleanup: (Y/N) <u>Y</u>	PH: <u>8.3</u>	Dilution Factor: <u>1.0</u>	

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	370	U
100-02-7	4-Nitrophenol	370	U
132-64-9	Dibenzofuran	190	U
121-14-2	2,4-Dinitrotoluene	190	U
84-66-2	Diethylphthalate	190	U
86-73-7	Fluorene	190	U
7005-72-3	4-Chlorophenyl-phenylether	190	U
100-01-6	4-Nitroaniline	370	U
534-52-1	4,6-Dinitro-2-methylphenol	370	U
86-30-6	N-Nitrosodiphenylamine ¹	190	U
95-94-3	1,2,4,5-Tetrachlorobenzene	190	U
101-55-3	4-Bromophenyl-phenylether	190	U
118-74-1	Hexachlorobenzene	190	U
1912-24-9	Atrazine	190	U
87-86-5	Pentachlorophenol	370	U
85-01-8	Phenanthrene	190	U
120-12-7	Anthracene	190	U
86-74-8	Carbazole	190	U
84-74-2	Di-n-butylphthalate	190	U
206-44-0	Fluoranthene	190	U
129-00-0	Pyrene	8.5	J
85-68-7	Butylbenzylphthalate	190	U
91-94-1	3,3'-Dichlorobenzidine	190	U
56-55-3	Benzo(a)anthracene	190	U
218-01-9	Chrysene	190	U
117-81-7	Bis(2-ethylhexyl)phthalate	700	E
117-84-0	Di-n-octylphthalate	190	U
205-99-2	Benzo(b)fluoranthene	11.	J
207-08-9	Benzo(k)fluoranthene	190	U
50-32-8	Benzo(a)pyrene	11.	J
193-39-5	Indeno(1,2,3-cd)pyrene	190	U
53-70-3	Dibenzo(a,h)anthracene	190	U
191-24-2	Benzo(g,h,i)perylene	190	U
58-90-2	2,3,4,6-Tetrachlorophenol	190	807

¹Cannot be separated from Diphenylamine

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9/6/08 SOM01.2 (6/2007)

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

J94T6

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026
 Lab Code: DATAC Case No.: 37584 Mod. Ref No.: SDG No.: J94S6
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 8215001013
 Sample wt/vol: 30.0 (g/mL) g Lab File ID: NLL19C13
 Level: (LOW/MED) LOW Extraction: (Type) SONC
 % Moisture: 11. Decanted: (Y/N) N Date Received: 08/02/2008
 Concentrated Extract Volume: 500. (uL) Date Extracted: 08/04/2008
 Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 08/15/2008
 GPC Cleanup: (Y/N) Y pH: 8.3 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	99-87-6	Benzene, 1-methyl-4-(1-methylethyl)-	4.25	87.	JN
02	100020-99-0	1,2,3,4-Tetrahydronatalene, 1,1-dimethyl-	6.41	120	JN
03	57-10-3	n-Hexadecanoic acid	11.91	81.	JN
04	100018-97-0	Tricyclo[4.4.0.0(2,8)]decan-4-ol	13.59	140	JN
05	100014-97-0	Isoaromadendrene epoxide .	14.09	260	JN
06	100014-00-0	(E)-2-Hydroxy-4'-dimethylamino-stilbene	14.38	140	JN
07	100023-96-0	3-Heptafluorobutyroxytridecane	16.88	120	JN
08	2000-72-8	3-Methoxy-D-homoestra-1,3,5(10),8-tetraene	17.67	220	JN
09	100012-93-0	11,12-Dibromo-tetradecan-1-ol acetate	19.75	95.	JN
10	104576-48-9	Xanthine, 1,3-diethyl-8-[4-[[[ethylamino	21.83	220	JN
11	56-49-5	3-Methylcholanthrene	21.99	99.	JN
12	100022-00-0	2-Amino-6-methoxypyridine	22.61	220	JN
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796 ^a	Total Alkanes	N/A	1000	JN

^aEPA-designated Registry Number.

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SOM01.2 (6/2007)

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J94T7

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026
 Lab Code: DATAAC Case No.: 37584 Mod. Ref No.: SDG No.: J94S6
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 8215001014
 Sample wt/vol: 30.0 (g/mL) g Lab File ID: NLL28C14
 Level: (LOW/MED) LOW Extraction: (Type) SONC
 % Moisture: 17. Decanted: (Y/N) N Date Received: 08/02/2008
 Concentrated Extract Volume: 500. (uL) Date Extracted: 08/04/2008
 Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 08/16/2008
 GPC Cleanup: (Y/N) Y pH: 8.0 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	39.	JQ
108-95-2	Phenol	200	U
111-44-4	Bis(2-chloroethyl)ether	200	U
95-57-8	2-Chlorophenol	200	U
95-48-7	2-Methylphenol	200	U
108-60-1	2,2'-Oxybis(1-chloropropane)	200	U
98-86-2	Acetophenone	18.	JQ
106-44-5	4-Methylphenol	200	U
621-64-7	N-Nitroso-di-n-propylamine	200	UJ
67-72-1	Hexachloroethane	200	U
98-95-3	Nitrobenzene	200	UJ
78-59-1	Isophorone	200	UJ
88-75-5	2-Nitrophenol	200	U
105-67-9	2,4-Dimethylphenol	200	U
111-91-1	Bis(2-chloroethoxy)methane	200	U
120-83-2	2,4-Dichlorophenol	200	U
91-20-3	Naphthalene	11.	JQ
106-47-8	4-Chloroaniline	200	U
87-68-3	Hexachlorobutadiene	200	U
105-60-2	Caprolactam	200	U
59-50-7	4-Chloro-3-methylphenol	200	U
91-57-6	2-Methylnaphthalene	200	U
77-47-4	Hexachlorocyclopentadiene	200	U
88-06-2	2,4,6-Trichlorophenol	200	U
95-95-4	2,4,5-Trichlorophenol	200	U
92-52-4	1,1'-Biphenyl	200	U
91-58-7	2-Chloronaphthalene	200	U
88-74-4	2-Nitroaniline	400	UJ
131-11-3	Dimethylphthalate	200	U
606-20-2	2,6-Dinitrotoluene	200	U
208-96-8	Acenaphthylene	200	U
99-09-2	3-Nitroaniline	400	U
83-32-9	Acenaphthene	200	U

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9/25/08

SOM01.2 (6/2007)

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J94T7

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026
 Lab Code: DATA~~C~~ Case No.: 37584 Mod. Ref No.: SDG No.: J94S6
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 8215001014
 Sample wt/vol: 30.0 (g/mL) g Lab File ID: NLL28C14
 Level: (LOW/MED) LOW Extraction: (Type) SONC
 % Moisture: 17. Decanted: (Y/N) N Date Received: 08/02/2008
 Concentrated Extract Volume: 500. (uL) Date Extracted: 08/04/2008
 Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 08/16/2008
 GPC Cleanup: (Y/N) Y pH: 8.0 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	400	U
100-02-7	4-Nitrophenol	400	U
132-64-9	Dibenzofuran	200	U
121-14-2	2,4-Dinitrotoluene	200	U
84-66-2	Diethylphthalate	200	U
86-73-7	Fluorene	200	U
7005-72-3	4-Chlorophenyl-phenylether	200	U
100-01-6	4-Nitroaniline	400	U
534-52-1	4,6-Dinitro-2-methylphenol	400	U
86-30-6	N-Nitrosodiphenylamine ¹	200	U
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U
101-55-3	4-Bromophenyl-phenylether	200	U
118-74-1	Hexachlorobenzene	200	U
1912-24-9	Atrazine	200	U
87-86-5	Pentachlorophenol	400	U
85-01-8	Phenanthrene	11.	J
120-12-7	Anthracene	200	U
86-74-8	Carbazole	200	U
84-74-2	Di-n-butylphthalate	200	U
206-44-0	Fluoranthene	12.	J
129-00-0	Pyrene	17.	J
85-68-7	Butylbenzylphthalate	200	U
91-94-1	3,3'-Dichlorobenzidine	200	U
56-55-3	Benzo(a)anthracene	16.	J
218-01-9	Chrysene	16.	J
117-81-7	Bis(2-ethylhexyl)phthalate	630	B
117-84-0	Di-n-octylphthalate	200	U
205-99-2	Benzo(b)fluoranthene	21.	J
207-08-9	Benzo(k)fluoranthene	8.1	J
50-32-8	Benzo(a)pyrene	15.	J
193-39-5	Indeno(1,2,3-cd)pyrene	17.	J
53-70-3	Dibenzo(a,h)anthracene	200	U
191-24-2	Benzo(g,h,i)perylene	14.	J
50-90-2	2,3,4,6-Tetrachlorophenol	200	836 U

¹Cannot be separated from Diphenylamine

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9k568 SOM01.2 (6/2007)

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

J94T7

Lab Name: DataChem Laboratories, Inc.

Contract: EP-W-05-026

Lab Code: DATAC Case No.: 37584 Mod. Ref No.: SDG No.: J94S6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 8215001014

Sample wt/vol: 30.0 (g/mL) g Lab File ID: NLL28C14

Level: (LOW/MED) LOW Extraction: (Type) SONC

% Moisture: 17. Decanted: (Y/N) N Date Received: 08/02/2008

Concentrated Extract Volume: 500. (uL) Date Extracted: 08/04/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 08/16/2008

GPC Cleanup: (Y/N) Y pH: 8.0 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01 100013-95-0	5-Methyl-2-ethenyl-cyclohexane-1-carboxy	11.42	100	JN
02 51504-54-2	1,4-Hexadiene, 2,3,4,5-tetramethyl-	11.75	150	JN
03 544-63-8	Tetradecanoic acid	11.92	200	JN
04 100019-00-0	Tricyclo[3.3.2.0(3,7)]decane	12.06	130	JN
05 78-10-4	Tetraethyl silicate	13.60	200	JN
06 17429-26-4	2H-Benzocyclohepten-2-one, 1,4a,5,6,7,8,	13.91	110	JN
07 4549-12-6	1-Naphthalenepropanol, .alpha.-ethenylde	14.08	420	JN
08 75311-76-1	Cyclohexanol, 3-ethenyl-3-methyl-2-(1-me	14.27	140	JN
09 100011-92-0	.alpha.-Tetraloxime, 8-fluoro-5,6-dimeth	14.39	340	JN
10 6010-78-2	trans-2,3,5-Trimethoxy-b-methyl-b-nitros	14.58	220	JN
11 2461-18-9	Oxirane, [(dodecyloxy)methyl]-	14.97	280	JN
12 57984-03-9	1H-Cyclopenta[a]pentalen-7-ol, decahydro	15.35	200	JN
13 54935-01-2	1H-Azepine, 1-(2,3-dichloro-1-propenyl)h	15.45	240	JN
14 100023-95-0	Cyclopropanecarboxylic acid, benzyl este	15.58	130	JN
15 97452-05-6	2,4,4-Trimethyl-3-(3-methylbuta-1,3-dien	15.67	140	JN
16 73306-77-1	trans-syn-cis-Tricyclo[7.3.0.0(2,6)]dode	15.70	140	JN
17 4200-95-7	1-Heptadecanamine	15.79	300	JN
18 56875-67-3	7-Hexadecenoic acid, methyl ester, (Z)-	15.92	310	JN
19 23262-34-2	Furan, 3-(4,8-dimethyl-3,7-nonadienyl)-,	16.36	92.	JN
20 2380-18-9	Octadecanoic acid, 2-oxo-, methyl ester	16.81	320	JN
21 112-88-9	1-Octadecene	16.86	160	JN
22 522-75-8	Benz[b]thiophen-3(2H)-one, 2-(3-oxobenz	17.66	390	JN
23 3460-23-9	Acetamide, N-(4-bromo-2-chlorophenyl)-	19.30	130	JN
24 78056-39-0	4,5-Difluoro-2-nitroaniline	19.84	200	JN
25 64399-30-0	4H-Pyrido[1,2-a]pyrimidine-3-carboxylic	20.08	170	JN
26 100018-91-0	1-Butyn-3-one, 1-(6,6-dimethyl-1,2-epoxy	20.13	97.	JN
27 68913-85-9	2,3,4-Trimethoxyphenylacetonitrile	20.34	94.	JN
28 100020-99-0	Stigmastan-3-en-6-ol	20.80	410	JN
29 56052-60-9	Cholestan-2-amine, N-(1-methylethylidene	21.83	220	JN
30 3795-19-5	Pregn-4-ene-3,20-dione, (8.alpha.,10.alp	22.62	700	JN
E966796 ²	Total Alkanes	N/A	270	JN

²EPA-designated Registry Number.

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9/25/08
SOM01.2 (6/2007)

ID - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J94T8

Lab Name: <u>DataChem Laboratories, Inc.</u>	Contract: <u>EP-W-05-026</u>		
Lab Code: <u>DATAC</u>	Case No.: <u>37584</u>	Mod. Ref No.: _____	SDG No.: <u>J94S6</u>
Matrix: (SOIL/SED/WATER) <u>SOIL</u>	Lab Sample ID: <u>8215001015</u>		
Sample wt/vol: <u>30.0</u> (g/mL) <u>g</u>	Lab File ID: <u>NLL20C15</u>		
Level: (LOW/MED) <u>LOW</u>	Extraction: (Type) <u>SONC</u>		
% Moisture: <u>4.2</u>	Decanted: (Y/N) <u>N</u>	Date Received: <u>08/02/2008</u>	
Concentrated Extract Volume: <u>500.</u> (uL)	Date Extracted: <u>08/04/2008</u>		
Injection Volume: <u>1.0</u> (uL)	GPC Factor: <u>2.0</u>	Date Analyzed: <u>08/15/2008</u>	
GPC Cleanup: (Y/N) <u>Y</u>	pH: <u>7.3</u>	Dilution Factor: <u>1.0</u>	

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	40.	J
108-95-2	Phenol	180	U
111-44-4	Bis(2-chloroethyl)ether	180	U
95-57-8	2-Chlorophenol	180	U
95-48-7	2-Methylphenol	180	U
108-60-1	2,2'-Oxybis(1-chloropropane)	180	U
98-86-2	Acetophenone	20.	J
106-44-5	4-Methylphenol	180	U
621-64-7	N-Nitroso-di-n-propylamine	180	UJ
67-72-1	Hexachloroethane	180	U
98-95-3	Nitrobenzene	180	UI
78-59-1	Isophorone	180	UJ
88-75-5	2-Nitrophenol	180	U
105-67-9	2,4-Dimethylphenol	180	U
111-91-1	Bis(2-chloroethoxy)methane	180	U
120-83-2	2,4-Dichlorophenol	180	U
91-20-3	Naphthalene	22.	J
106-47-8	4-Chloroaniline	180	U
87-68-3	Hexachlorobutadiene	180	U
105-60-2	Caprolactam	180	U
59-50-7	4-Chloro-3-methylphenol	180	U
91-57-6	2-Methylnaphthalene	19.	J
77-47-4	Hexachlorocyclopentadiene	180	U
88-06-2	2,4,6-Trichlorophenol	180	U
95-95-4	2,4,5-Trichlorophenol	180	U
92-52-4	1,1'-Biphenyl	7.0	J
91-58-7	2-Choronaphthalene	180	U
88-74-4	2-Nitroaniline	340	UJ
131-11-3	Dimethylphthalate	180	U
606-20-2	2,6-Dinitrotoluene	180	U
208-96-8	Acenaphthylene	180	U
99-09-2	3-Nitroaniline	340	U
83-32-9	Acenaphthene	180	U

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9/25/08
SOM01.2 (6/2007)

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J94T8

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026
 Lab Code: DATAC Case No.: 37584 Mod. Ref No.: SDG No.: J94S6
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 8215001015
 Sample wt/vol: 30.0 (g/mL) g Lab File ID: NLL20C15
 Level: (LOW/MED) LOW Extraction: (Type) SONC
 % Moisture: 4.2 Decanted: (Y/N) N Date Received: 08/02/2008
 Concentrated Extract Volume: 500 (uL) Date Extracted: 08/04/2008
 Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 08/15/2008
 GPC Cleanup: (Y/N) Y pH: 7.3 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	340	U
100-02-7	4-Nitrophenol	340	U
132-64-9	Dibenzofuran	180	U
121-14-2	2,4-Dinitrotoluene	180	U
84-66-2	Diethylphthalate	180	U
86-73-7	Fluorene	180	U
7005-72-3	4-Chlorophenyl-phenylether	180	U
100-01-6	4-Nitroaniline	340	U
534-52-1	4,6-Dinitro-2-methylphenol	340	U
86-30-6	N-Nitrosodiphenylamine ¹	180	U
95-94-3	1,2,4,5-Tetrachlorobenzene	180	U
101-55-3	4-Bromophenyl-phenylether	180	U
118-74-1	Hexachlorobenzene	180	U
1912-24-9	Atrazine	180	U
87-86-5	Pentachlorophenol	340	U
85-01-8	Phenanthrene	22.	J Q
120-12-7	Anthracene	180	U
86-74-8	Carbazole	180	U
84-74-2	Di-n-butylphthalate	15.	J Q
206-44-0	Fluoranthene	20.	J Q
129-00-0	Pyrene	22.	J Q
85-68-7	Butylbenzylphthalate	30.	J Q
91-94-1	3,3'-Dichlorobenzidine	180	U
56-55-3	Benzo(a)anthracene	13.	J Q
218-01-9	Chrysene	21.	J Q
117-81-7	Bis(2-ethylhexyl)phthalate	540	J Q
117-84-0	Di-n-octylphthalate	180	U
205-99-2	Benzo(b)fluoranthene	25.	J Q
207-08-9	Benzo(k)fluoranthene	6.6	J Q
50-32-8	Benzo(a)pyrene	17.	J Q
193-39-5	Indeno(1,2,3-cd)pyrene	19.	J Q
53-70-3	Dibenzo(a,h)anthracene	180	U
191-24-2	Benzo(g,h,i)perylene	18.	J Q
58-90-2	2,3,4,6-Tetrachlorophenol	18.	883 U

¹Cannot be separated from Diphenylamine

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9/25/08

SOM01.2 (6/2007)

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

J94T8

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026
 Lab Code: DATAC Case No.: 37584 Mod. Ref No.: SDG No.: J94S6
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 8215001015
 Sample wt/vol: 30.0 (g/mL) g Lab File ID: NLL20C15
 Level: (LOW/MED) LOW Extraction: (Type) SONC
 % Moisture: 4.2 Decanted: (Y/N) N Date Received: 08/02/2008
 Concentrated Extract Volume: 500. (uL) Date Extracted: 08/04/2008
 Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 08/15/2008
 GPC Cleanup: (Y/N) Y pH: 7.3 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01 483-65-8	Phenanthrene, 1-methyl-7-(1-methylethyl)	13.83	130	JN
02 100020-95-0	1,3-Diamino-5,6-dihydro-7-methylbenzo[f]	14.23	170	JN
03 2765-11-9	Pentadecanal-	14.70	90.	JN
04 34668-54-7	9-Aza-bicyclo[4.2.1]nona-2,4-diene-9-car	14.83	110	JN
05 100015-94-0	2-Pentene, 2-cyano-3-(diethylborylamino)	14.92	95.	JN
06 2461-18-9	Oxirane, [(dodecyloxy)methyl]-	14.97	490	JN
07 74630-29-8	1,5-Heptadiene, 3,3,5-trimethyl-	16.37	150	JN
08 638-66-4	Octadecanal	16.50	360	JN
09 100012-93-0	13-Tertadecen-1-ol acetate	16.87	1300	JN
10 52829-05-7	4,6-Diphenyl-2-(2-hydroxyphenyl)pyrimidi	17.66	370	JN
11 22393-89-1	Myristic acid, 9-hexadecenyl ester, (Z)-	17.80	180	JN
12 509-60-4	Dihydromorphine	18.14	120	JN
13 629-73-2	1-Hexadecene	18.35	310	JN
14 61337-67-5	Mirtazapine	18.62	99.	JN
15 100020-94-0	4-Amino-7-[2,6-dichlorobenzyl]pyrrolo[2,	19.67	87.	JN
16 37920-74-4	Quinazoline, 4-ethyl-, 3-oxide	19.83	290	JN
17 108546-97-0	(1-Hydroxymethyl-2-phenyl-cyclopropyl)-p	20.09	290	JN
18 100010-94-0	4-Dehydroxy-N-(4,5-methylenedioxy-2-nitr	20.71	120	JN
19 83-47-6	.gamma.-Sitosterol	20.84	960	JN
20 100019-91-0	9-Phenyl-5H-benzocycloheptene	21.50	320	JN
21 19446-96-9	4H-1-Benzothiopyran-4-one, 2,3-dihydro-,	21.84	400	JN
22 100011-93-0	Ethyl .alpha.-oximidostearate	21.98	93.	JN
23 100014-00-0	1R,4s,7s,11R-2,2,4,8-Tetramethyltricyclo	22.39	110	JN
24 1058-61-3	Stigmast-4-en-3-one	22.63	670	JN
25 2164-09-2	2-Propenamide, N-(3,4-dichlorophenyl)-2-	22.84	170	JN
26 102681-49-2	2H-Cyclopropa[g]benzofuran, 4,5,5a,6,6a,	23.35	120	JN
27				
28				
29				
30				
E966796 ^a	Total Alkanes	N/A	4100	JN

^aEPA-designated Registry Number.

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9/25/08 SOM01.2 (6/2007)

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J94T9

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026
 Lab Code: DATAAC Case No.: 37584 Mod. Ref No.: SDG No.: J94S6
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 8215001016
 Sample wt/vol: 30.0 (g/mL) g Lab File ID: NLL29C16
 Level: (LOW/MED) LOW Extraction: (Type) SONC
 % Moisture: 11. Decanted: (Y/N) N Date Received: 08/02/2008
 Concentrated Extract Volume: 500. (uL) Date Extracted: 08/04/2008
 Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 08/16/2008
 GPC Cleanup: (Y/N) Y pH: 7.2 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	57.	J Q
108-95-2	Phenol	16.	J Q
111-44-4	Bis(2-chloroethyl)ether	190	U
95-57-8	2-Chlorophenol	190	U
95-48-7	2-Methylphenol	190	U
108-60-1	2,2'-Oxybis(1-chloropropane)	190	U
98-86-2	Acetophenone	35.	J Q
106-44-5	4-Methylphenol	190	U
621-64-7	N-Nitroso-di-n-propylamine	190	UJ
67-72-1	Hexachloroethane	190	U
98-95-3	Nitrobenzene	190	UJ
78-59-1	Isophorone	190	UJ
88-75-5	2-Nitrophenol	190	U
105-67-9	2,4-Dimethylphenol	190	U
111-91-1	Bis(2-chloroethoxy)methane	190	U
120-83-2	2,4-Dichlorophenol	190	U
91-20-3	Naphthalene	28.	J Q
106-47-8	4-Chloroaniline	190	U
87-68-3	Hexachlorobutadiene	190	U
105-60-2	Caprolactam	190	U
59-50-7	4-Chloro-3-methylphenol	190	U
91-57-6	2-Methylnaphthalene	19.	J Q
77-47-4	Hexachlorocyclopentadiene	190	U
88-06-2	2,4,6-Trichlorophenol	190	U
95-95-4	2,4,5-Trichlorophenol	190	U
92-52-4	1,1'-Biphenyl	9.5	J Q
91-58-7	2-Choronaphthalene	190	U
88-74-4	2-Nitroaniline	370	UJ
131-11-3	Dimethylphthalate	190	U
606-20-2	2,6-Dinitrotoluene	190	U
208-96-8	Acenaphthylene	190	U
99-09-2	3-Nitroaniline	370	U
83-32-9	Acenaphthene	190	U

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9/25/08
SOM01.2 (6/2007)

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J94T9

Lab Name: DataChem Laboratories, Inc.

Contract: EP-W-05-026

Lab Code: DATAC Case No.: 37584 Mod. Ref No.: SDG No.: J94S6

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: 8215001016

Sample wt/vol: 30.0 (g/mL) g

Lab File ID: NLL29C16

Level: (LOW/MED) LOW

Extraction: (Type) SONC

% Moisture: 11. Decanted: (Y/N) N

Date Received: 08/02/2008

Concentrated Extract Volume: 500. (uL)

Date Extracted: 08/04/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0

Date Analyzed: 08/16/2008

GPC Cleanup: (Y/N) Y pH: 7.2

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	370	U
100-02-7	4-Nitrophenol	370	U
132-64-9	Dibenzofuran	190	U
121-14-2	2,4-Dinitrotoluene	190	U
84-66-2	Diethylphthalate	190	U
86-73-7	Fluorene	190	U
7005-72-3	4-Chlorophenyl-phenylether	190	U
100-01-6	4-Nitroaniline	370	U
534-52-1	4,6-Dinitro-2-methylphenol	370	U
86-30-6	N-Nitrosodiphenylamine ¹	190	U
95-94-3	1,2,4,5-Tetrachlorobenzene	190	U
101-55-3	4-Bromophenyl-phenylether	190	U
118-74-1	Hexachlorobenzene	190	U
1912-24-9	Atrazine	190	U
87-86-5	Pentachlorophenol	370	U
85-01-8	Phenanthrene	26.	J
120-12-7	Anthracene	190	U
86-74-8	Carbazole	190	U
84-74-2	Di-n-butylphthalate	21.	J
206-44-0	Fluoranthene	19.	J
129-00-0	Pyrene	22.	J
85-68-7	Butylbenzylphthalate	190	U
91-94-1	3,3'-Dichlorobenzidine	190	U
56-55-3	Benzo(a)anthracene	18.	J
218-01-9	Chrysene	21.	J
117-81-7	Bis(2-ethylhexyl)phthalate	610	J
117-84-0	Di-n-octylphthalate	190	U
205-99-2	Benzo(b)fluoranthene	32.	J
207-08-9	Benzo(k)fluoranthene	12.	J
50-32-8	Benzo(a)pyrene	20.	J
193-39-5	Indeno(1,2,3-cd)pyrene	24.	J
53-70-3	Dibenzo(a,h)anthracene	190	U
191-24-2	Benzo(g,h,i)perylene	18.	J
56-90-2	2,3,4,6-Tetrachlorophenol	19937	J

¹Cannot be separated from Diphenylamine.

R
9/25/08 SOM01.2 (6/2007)

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

J94T9

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026
 Lab Code: DATAC Case No.: 37584 Mod. Ref No.: SDG No.: J94S6
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 8215001016
 Sample wt/vol: 30.0 (g/mL) g Lab File ID: NLL29C16
 Level: (LOW/MED) LOW Extraction: (Type) SONC
 % Moisture: 11. Decanted: (Y/N) N Date Received: 08/02/2008
 Concentrated Extract Volume: 500. (uL) Date Extracted: 08/04/2008
 Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 08/16/2008
 GPC Cleanup: (Y/N) Y pH: 7.2 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01 112-80-1	Oleic Acid	13.20	180	JN
02 483-65-8	Phenanthrene, 1-methyl-7-(1-methylethyl)	13.83	260	JN
03 506-52-5	1-Hexacosanol	14.06	510	JN
04 74367-40-1	9H-Carbazole, 9-(trimethylsilyl)-	14.39	240	JN
05 13378-89-7	1, 4-Naphthoquinone, 6-acetyl-2,5,7-trihy-	14.45	140	JN
06 1241-94-7	Octicizer	14.70	620	JN
07 112-88-9	1-Octadecene	14.97	1000	JN
08 5129-56-6	Undecanoic acid, 10-methyl-, methyl este	15.94	120	JN
09 100014-00-0	1-Formyl-2,2-dimethyl-3-trans-(3-methyl-	16.18	120	JN
10 7320-37-8	Oxirane, tetradecyl-	16.50	520	JN
11 100013-92-0	Methyl 4-(7-hydroxy-decyl)-benzoate	16.60	220	JN
12 506-52-5	1-Hexacosanol	16.87	950	JN
13 502-69-2	2-Pentadecanone, 6,10,14-trimethyl-	16.95	170	JN
14 100011-98-0	Perhydro-htx, 1-acetyl-2-depentyl-	17.35	120	JN
15 522-75-8	Benzo[b]thiophen-3(2H)-one, 2-(3-oxobenz	17.67	470	JN
16 100012-93-0	E-6-Tetradecen-1-ol acetate	17.81	140	JN
17 58-15-1	Aminopyrine	18.35	280	JN
18 100023-92-0	Cyclopropanecarboxylic acid, exo-norborn	18.95	160	JN
19 17429-94-6	Galactopyranose, 2-acetamido-2-deoxy-3-O	19.18	140	JN
20 100014-97-0	Longipinocarveol, trans-	19.74	140	JN
21 348-51-6	Benzene, 1-chloro-2-fluoro-	20.11	160	JN
22 4630-07-3	Naphthalene, 1,2,3,5,6,7,8,8a-octahydro-	20.27	1400	JN
23 100020-99-0	3-Acetyl-1-(4-chlorophenyl)-5-hydroxymet	20.50	130	JN
24 63-47-6	.gamma.-Sitosterol	20.81	320	JN
25 34314-04-0	Bicyclo[2.2.1]heptane-2-acetic acid, 5-m	20.85	260	JN
26 1706-90-7	Phosphinic acid, diphenyl-, methyl ester	21.47	180	JN
27 100020-98-0	3-Acetyl-1-(4-iodophenyl)-5-isopropyl-4,	21.86	160	JN
28 100012-97-0	Tetrahydrocionol	23.13	130	JN
29 4926-18-5	1,2,4-Triazolo[4,3-a]pyridin-3(2H)-one,	23.26	140	JN
30 348-13-0	2-Propenoic acid, 3-(2-fluorophenyl)-, e	23.48	120	JN
E966796 ²	Total Alkanes	N/A	3700	JN

²EPA-designated Registry Number.

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9/25/08 SOM01.2 (6/2007)

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J94W0

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026
 Lab Code: DATAC Case No.: 37584 Mod. Ref No.: SDG No.: J94S6
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 8215001017
 Sample wt/vol: 30.0 (g/mL) g Lab File ID: NLL21C17
 Level: (LOW/MED) LOW Extraction: (Type) SONC
 % Moisture: 18. Decanted: (Y/N) N Date Received: 08/02/2008
 Concentrated Extract Volume: 500. (uL) Date Extracted: 08/04/2008
 Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 08/15/2008
 GPC Cleanup: (Y/N) Y pH: 7.4 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	20.	JQ
108-95-2	Phenol	210	U
111-44-4	Bis(2-chloroethyl)ether	210	U
95-57-8	2-Chlorophenol	210	U
95-48-7	2-Methylphenol	210	U
108-60-1	2,2'-Oxybis(1-chloropropane)	210	U
98-86-2	Acetophenone	22.	JQ
106-44-5	4-Methylphenol	210	U
621-64-7	N-Nitroso-di-n-propylamine	210	UT
67-72-1	Hexachloroethane	210	U
98-95-3	Nitrobenzene	210	UT
78-59-1	Isophorone	210	UT
88-75-5	2-Nitrophenol	210	U
105-67-9	2,4-Dimethylphenol	210	U
111-91-1	Bis(2-chloroethoxy)methane	210	U
120-83-2	2,4-Dichlorophenol	210	U
91-20-3	Naphthalene	210	U
106-47-8	4-Chloroaniline	210	U
87-68-3	Hexachlorobutadiene	210	U
105-60-2	Caprolactam	210	U
59-50-7	4-Chloro-3-methylphenol	210	U
91-57-6	2-Methylnaphthalene	210	U
77-47-4	Hexachlorocyclopentadiene	210	U
89-06-2	2,4,6-Trichlorophenol	210	U
95-95-4	2,4,5-Trichlorophenol	210	U
92-52-4	1,1'-Biphenyl	210	U
91-58-7	2-Chloronaphthalene	210	U
88-74-4	2-Nitroaniline	400	UT
131-11-3	Dimethylphthalate	210	U
606-20-2	2,6-Dinitrotoluene	210	U
208-96-8	Acenaphthylene	210	U
99-09-2	3-Nitroaniline	400	U
83-32-9	Acenaphthene	210	U

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1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J94W0

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026
 Lab Code: DATAC Case No.: 37584 Mod. Ref No.: SDG No.: J94S6
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 8215001017
 Sample wt/vol: 30.0 (g/mL) g Lab File ID: NLL21C17
 Level: (LOW/MED) LOW Extraction: (Type) SONC
 % Moisture: 18. Decanted: (Y/N) N Date Received: 08/02/2008
 Concentrated Extract Volume: 500. (uL) Date Extracted: 08/04/2008
 Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 08/15/2008
 GPC Cleanup: (Y/N) Y pH: 7.4 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	400	U
100-02-7	4-Nitrophenol	400	U
132-64-9	Dibenzofuran	210	U
121-14-2	2,4-Dinitrotoluene	210	U
84-66-2	Diethylphthalate	210	U
86-73-7	Fluorene	210	U
7005-72-3	4-Chlorophenyl-phenylether	210	U
100-01-6	4-Nitroaniline	400	U
534-52-1	4,6-Dinitro-2-methylphenol	400	U
86-30-6	N-Nitrosodiphenylamine ¹	210	U
95-94-3	1,2,4,5-Tetrachlorobenzene	210	U
101-55-3	4-Bromophenyl-phenylether	210	U
118-74-1	Hexachlorobenzene	210	U
1912-24-9	Atrazine	210	U
87-86-5	Pentachlorophenol	400	U
85-01-8	Phenanthrene	8.2	J
120-12-7	Anthracene	210	U
86-74-8	Carbazole	210	U
84-74-2	Di-n-butylphthalate	210	U
206-44-0	Fluoranthene	8.6	J
129-00-0	Pyrene	12.	J
85-68-7	Butylbenzylphthalate	210	U
91-94-1	3,3'-Dichlorobenzidine	210	U
56-55-3	Benzo(a)anthracene	7.8	J
218-01-9	Chrysene	11.	J
117-81-7	Bis(2-ethylhexyl)phthalate	670	S
117-84-0	Di-n-octylphthalate	210	U
205-99-2	Benzo(b)fluoranthene	13.	J
207-08-9	Benzo(k)fluoranthene	210	U
50-32-8	Benzo(a)pyrene	9.5	J
193-39-5	Indeno(1,2,3-cd)pyrene	210	U
53-70-3	Dibenzo(a,h)anthracene	210	U
191-24-2	Benzo(g,h,i)perylene	210	U
58-90-2	2,3,4,6-Tetrachlorophenol	210	994 U

¹Cannot be separated from Diphenylamine

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9/25/08 SOM01.2 (6/2007)

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

J94W0

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026
 Lab Code: DATAC Case No.: 37584 Mod. Ref No.: SDG No.: J94S6
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 8215001017
 Sample wt/vol: 30.0 (g/mL) g Lab File ID: NLL21C17
 Level: (LOW/MED) LOW Extraction: (Type) SONC
 % Moisture: 18. Decanted: (Y/N) N Date Received: 08/02/2008
 Concentrated Extract- Volume: 500. (uL) Date Extracted: 08/04/2008
 Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 08/15/2008
 GPC Cleanup: (Y/N) Y pH: 7.4 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01 1454-85-9	1-Heptadecanol	14.07	430	JN
02 6624-79-9	1-Dotriacontanol	14.97	580	JN
03 124-25-4	Tetradecanol	15.52	100	JN
04 100013-95-0	16-Heptadecenal	16.49	300	JN
05 506-52-5	1-Hexacosanol	16.86	1700	JN
06 52829-05-7	4,6-Diphenyl-2-(2-hydroxyphenyl)pyrimidi	17.66	570	JN
07 7390-81-0	Oxirane, hexadecyl-	17.80	240	JN
08 6624-79-9	1-Dotriacontanol	18.35	220	JN
09 49562-76-7	p-Octyloxynitrobenzene	19.15	190	JN
10 16154-83-9	Quinoxaline, 2-ethyl-, 4-oxide	19.83	610	JN
11 286-20-4	7-Oxabicyclo[4.1.0]heptane	19.95	110	JN
12 100021-94-0	N-Benzyl-2-(4-methoxyphenoxy)acetamide	20.07	360	JN
13 4630-07-3	Naphthalene, 1,2,3,5,6,7,8,8a-octahydro-	20.27	3000	JN
14 57289-26-6	1-Dodecanol, 2-methyl-, (S)-	20.49	150	JN
15 83-47-6	.gamma.-Sitosterol	20.82	1100	JN
16 1016-05-3	Dibenzothiophene sulfone	21.00	170	JN
17 39108-97-9	N-(1,1-Dimethylpropynyl)-2-furancarboxam	21.15	250	JN
18 55123-72-3	2(3H)-Naphthalenone, 4,4a,5,6,7,8-hexahy	21.27	130	JN
19 2847-30-5	Pyrazine, 2-methoxy-3-methyl-	21.34	240	JN
20 86917-79-5	6-Isopropenyl-4,8a-dimethyl-4a,5,6,7,8,8	21.47	780	JN
21 3625-49-8	6,10-Dodecadien-3-ol, 3,7,11-trimethyl-	21.58	220	JN
22 100022-00-0	5-Ethoxy-2-ethoxycarbonyl-4-ethoxycarbon	21.67	400	JN
23 100020-98-0	3-Acetyl-1-(4-iodophenyl)-5-isopropyl-4,	21.85	460	JN
24 86941-63-1	2(1H)Naphthalenone, 3,5,6,7,8,8a-hexahyd	22.16	110	JN
25 100021-92-0	2H-Cyclopentacyclooctene, 4,5,6,7,8,9-he	22.34	160	JN
26 604-39-7	Androst-4-en-3-one, 17-hydroxy-, (10.alp.	22.63	630	JN
27 39512-49-7	4-(para-Chlorophenyl)-4-hydroxypiperidin	22.82	150	JN
28 100017-96-0	Acetic acid, 3-hydroxy-6-isopropenyl-4,8	23.42	300	JN
29				
30				
E966796 ²	Total Alkanes	N/A	3300	JN

²EPA-designated Registry Number.

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1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J94WI

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026
 Lab Code: DATA~~C~~ Case No.: 37584 Mod, Ref No.: SDG No.: J94S6
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 8215001018
 Sample wt/vol: 30.0 (g/mL) g Lab File ID: NLL11C18
 Level: (LOW/MED) LOW Extraction: (Type) SONC
 % Moisture: 8.9 Decanted: (Y/N) N Date Received: 08/02/2008
 Concentrated Extract Volume: 500. (uL) Date Extracted: 08/04/2008
 Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 08/15/2008
 GPC Cleanup: (Y/N) Y pH: 7.4 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	21.	JQ
108-95-2	Phenol	190	U
111-44-4	Bis(2-chloroethyl)ether	190	U
95-57-8	2-Chlorophenol	190	U
95-48-7	2-Methylphenol	190	U
108-60-1	2,2'-Oxybis(1-chloropropane)	190	U
98-86-2	Acetophenone	18.	JQ
106-44-5	4-Methylphenol	190	U
621-64-7	N-Nitroso-di-n-propylamine	190	U
67-72-1	Hexachloroethane	190	U
98-95-3	Nitrobenzene	190	U
78-59-1	Isophorone	190	U
88-75-5	2-Nitrophenol	190	U
105-67-9	2,4-Dimethylphenol	190	U
111-91-1	Bis(2-chloroethoxy)methane	190	U
120-83-2	2,4-Dichlorophenol	190	U
91-20-3	Naphthalene	190	U
106-47-8	4-Chloroaniline	190	U
87-68-3	Hexachlorobutadiene	190	U
105-60-2	Caprolactam	190	U
59-50-7	4-Chloro-3-methylphenol	190	U
91-57-6	2-Methylnaphthalene	190	U
77-47-4	Hexachlorocyclopentadiene	190	U
88-06-2	2,4,6-Trichlorophenol	190	U
95-95-4	2,4,5-Trichlorophenol	190	U
92-52-4	1,1'-Biphenyl	190	U
91-58-7	2-Chloronaphthalene	190	U
88-74-4	2-Nitroaniline	360	U
131-11-3	Dimethylphthalate	190	U
606-20-2	2,6-Dinitrotoluene	190	U
208-96-8	Acenaphthylene	190	U
99-09-2	3-Nitroaniline	360	U
83-32-9	Acenaphthene	190	U

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1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J94W1

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026
 Lab Code: DATAC Case No.: 37584 Mod. Ref No.: SDG No.: J94S6
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 8215001018
 Sample wt/vol: 30.0 (g/mL) g Lab File ID: NLL11C18
 Level: (LOW/MED) LOW Extraction: (Type) SONC
 % Moisture: 8.9 Decanted: (Y/N) N Date Received: 08/02/2008
 Concentrated Extract Volume: 500. (uL) Date Extracted: 08/04/2008
 Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 08/15/2008
 GPC Cleanup: (Y/N) Y pH: 7.4 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	360	UJ
100-02-7	4-Nitrophenol	360	U
132-64-9	Dibenzofuran	190	U
121-14-2	2,4-Dinitrotoluene	190	U
84-66-2	Diethylphthalate	190	U
86-73-7	Fluorene	190	U
7005-72-3	4-Chlorophenyl-phenylether	190	U
100-01-6	4-Nitroaniline	360	U
534-52-1	4,6-Dinitro-2-methylphenol	360	U
86-30-6	N-Nitrosodiphenylamine ¹	190	U
95-94-3	1,2,4,5-Tetrachlorobenzene	190	U
101-55-3	4-Bromophenyl-phenylether	190	U
118-74-1	Hexachlorobenzene	190	U
1912-24-9	Atrazine	190	U
87-86-5	Pentachlorophenol	360	U
85-01-8	Phenanthrene	190	U
120-12-7	Anthracene	190	U
86-74-8	Carbazole	190	U
84-74-2	Di-n-butylphthalate	190	U
206-44-0	Fluoranthene	190	U
129-00-0	Pyrene	190	U
85-68-7	Butylbenzylphthalate	190	U
91-94-1	3,3'-Dichlorobenzidine	190	U
56-55-3	Benzo(a)anthracene	190	U
218-01-9	Chrysene	190	U
117-81-7	Bis(2-ethylhexyl)phthalate	510	Z
117-84-0	Di-n-octylphthalate	190	U
205-99-2	Benzo(b)fluoranthene	190	U
207-08-9	Benzo(k)fluoranthene	190	U
50-32-8	Benzo(a)pyrene	190	U
193-39-5	Indeno(1,2,3-cd)pyrene	190	U
53-70-3	Dibenzo(a,h)anthracene	190	U
191-24-2	Benzo(g,h,i)perylene	190	U
58-90-2	2,3,4,6-Tetrachlorophenol	19044	U

¹Cannot be separated from Diphenylamine

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9/25/08 S0M01.2 (6/2007)

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

J94W1

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026
 Lab Code: DATA~~C~~ Case No.: 37584 Mod. Ref No.: SDG No.: J94S6
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 8215001018
 Sample wt/vol: 30.0 (g/mL) g Lab File ID: NLL11C18
 Level: (LOW/MED) LOW Extraction: (Type) SONC
 % Moisture: 8.9 Decanted: (Y/N) N Date Received: 08/02/2008
 Concentrated Extract Volume: 500. (uL) Date Extracted: 08/04/2008
 Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 08/15/2008
 GPC Cleanup: (Y/N) Y pH: 7.4 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01 100020-99-0	1,2,3,4-Tetrahydropentalene, 1,1-dimethyl-	6.41	270	JN
02 3386-33-2	Octadecane, 1-chloro-	14.10	230	JN
03 3913-02-8	1-Octanol, 2-butyl-	14.56	74.	JN
04 638-66-4	Octadecanal	14.71	120	JN
05 638-66-4	Octadecanal	15.54	82.	JN
06 6624-79-9	1-Dotriacontanol	15.84	240	JN
07 7683-64-9	Squalene	16.37	130	JN
08 638-66-4	Octadecanal	16.51	290	JN
09 15116-19-5	2,5-Cyclohexadiene-1,4-dione, 2-methoxy-	16.70	75.	JN
10 36653-82-4	1-Hexadecanol	16.90	1200	JN
11 85-44-9	Phthalic anhydride	17.67	270	JN
12 14811-95-1	1,19-Eicosadiene	17.83	130	JN
13 6624-79-9	1-Dotriacontanol	18.42	370	JN
14 584-84-9	Benzene, 2,4-diisocyanato-1-methyl-	19.86	250	JN
15 77581-12-5	2,11-Dimethyl-2,3,4,5,6,7-hexahydro-1H-2	20.19	230	JN
16 489-29-2	1H-Cyclopropa[a]naphthalene, 1a,2,3,3a,4	20.28	1200	JN
17 100020-99-0	Stigmastan-3-en-6-ol	20.87	630	JN
18 23707-65-5	Anthracene, 9-(2-propenyl)-	21.08	130	JN
19 2882-21-5	Pyrazine, 2-methoxy-6-methyl-	21.37	110	JN
20 100021-93-0	Urea, N,N'-bis(tert-butyldimethylsilyl)-	21.52	260	JN
21 611-48-3	Naphthalene, 1-(2-naphthalenylmethyl)-	21.67	310	JN
22 104576-48-9	Xanthine, 1,3-diethyl-8-[4-[[[ethylamino	21.88	330	JN
23 604-39-7	Androst-4-en-3-one, 17-hydroxy-, (10.alp	22.64	360	JN
24				
25				
26				
27				
28				
29				
30				
E966796 ^a	Total Alkanes	N/A	2400	JN

^aEPA-designated Registry Number.

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SOM01.2 (6/2007)

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J94W2

Lab Name: DataChem Laboratories, Inc.	Contract: EP-W-05-026
Lab Code: DATAC Case No.: 37584	Mod. Ref No.: SDG No.: J94S6
Matrix: (SOIL/SED/WATER) SOIL	Lab Sample ID: 8215001019
Sample wt/vol: 30.0 (g/mL) g	Lab File ID: NLL22C19
Level: (LOW/MED) LOW	Extraction: (Type) SONC
% Moisture: 13. Decanted: (Y/N) N	Date Received: 08/02/2008
Concentrated Extract Volume: 500. (uL)	Date Extracted: 08/04/2008
Injection Volume: 1.0 (uL) GPC Factor: 2.0	Date Analyzed: 08/15/2008
GPC Cleanup: (Y/N) Y pH: 7.4	Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	28.	JQ
108-95-2	Phenol	190	U
111-44-4	Bis(2-chloroethyl)ether	190	U
95-57-8	2-Chlorophenol	190	U
95-48-7	2-Methylphenol	190	U
108-60-1	2,2'-Oxybis(1-chloropropane)	190	U
98-86-2	Acetophenone	20.	JQ
106-44-5	4-Methylphenol	190	U
621-64-7	N-Nitroso-di-n-propylamine	190	UT
67-72-1	Hexachloroethane	190	U
98-95-3	Nitrobenzene	190	UT
78-59-1	Isophorone	190	UT
88-75-5	2-Nitrophenol	190	U
105-67-9	2,4-Dimethylphenol	190	U
111-91-1	Bis(2-chloroethoxy)methane	190	U
120-83-2	2,4-Dichlorophenol	190	U
91-20-3	Naphthalene	7.1	JQ
106-47-8	4-Chloroaniline	190	U
87-68-3	Hexachlorobutadiene	190	U
105-60-2	Caprolactam	190	U
59-50-7	4-Chloro-3-methylphenol	190	U
91-57-6	2-Methylnaphthalene	190	U
77-47-4	Hexachlorocyclopentadiene	190	U
88-06-2	2,4,6-Trichlorophenol	190	U
95-95-4	2,4,5-Trichlorophenol	190	U
92-52-4	1,1'-Biphenyl	190	U
91-58-7	2-Chloronaphthalene	190	U
88-74-4	2-Nitroaniline	380	UT
131-11-3	Dimethylphthalate	190	U
606-20-2	2,6-Dinitrotoluene	190	U
208-96-8	Acenaphthylene	190	U
99-09-2	3-Nitroaniline	380	U
83-32-9	Acenaphthene	190	U

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[Signature]
9/25/08
SOM01.2 (6/2007)

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J94W2

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026
 Lab Code: DATA C Case No.: 37584 Mod. Ref No.: SDG No!: J94S6
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 8215001019
 Sample wt/vol: 30.0 (g/mL) g Lab File ID: NLL22C19
 Level: (LOW/MED) LOW Extraction: (Type) SONC
 % Moisture: 13. Decanted: (Y/N) N Date Received: 08/02/2008
 Concentrated Extract Volume: 500. (uL) Date Extracted: 08/04/2008
 Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 08/15/2008
 GPC Cleanup: (Y/N) Y pH: 7.4 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	380	U
100-02-7	4-Nitrophenol	380	U
132-64-9	Dibenzofuran	190	U
121-14-2	2,4-Dinitrotoluene	190	U
84-66-2	Diethylphthalate	190	U
86-73-7	Fluorene	190	U
7005-72-3	4-Chlorophenyl-phenylether	190	U
100-01-6	4-Nitroaniline	380	U
534-52-1	4,6-Dinitro-2-methylphenol	380	U
86-30-6	N-Nitrosodiphenylamine ¹	190	U
95-94-3	1,2,4,5-Tetrachlorobenzene	190	U
101-55-3	4-Bromophenyl-phenylether	190	U
118-74-1	Hexachlorobenzene	190	U
1912-24-9	Atrazine	190	U
87-86-5	Pentachlorophenol	380	U
85-01-8	Phenanthrene	8.5	J
120-12-7	Anthracene	190	U
86-74-8	Carbazole	190	U
84-74-2	Di-n-butylphthalate	190	U
206-44-0	Fluoranthene	190	U
129-00-0	Pyrene	190	U
85-68-7	Butylbenzylphthalate	190	U
91-94-1	3,3'-Dichlorobenzidine	190	U
56-55-3	Benzo(a)anthracene	190	U
218-01-9	Chrysene	190	U
117-81-7	Bis(2-ethylhexyl)phthalate	390	XU
117-84-0	Di-n-octylphthalate	190	U
205-99-2	Benzo(b)fluoranthene	190	U
207-08-9	Benzo(k)fluoranthene	190	U
50-32-8	Benzo(a)pyrene	190	U
193-39-5	Indeno(1,2,3-cd)pyrene	190	U
53-70-3	Dibenzo(a,h)anthracene	190	U
191-24-2	Benzo(g,h,i)perylene	190	U
58-90-2	2,3,4,6-Tetrachlorophenol	190	082 U

¹Cannot be separated from Diphenylamine

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9/25/08 S0M01.2 (6/2007)

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

J94W2

Lab Name: DataChem Laboratories, Inc.	Contract: EP-W-05-026		
Lab Code: DATAC	Case No.: 37584	Mod. Ref No.:	SDG No.: J94S6
Matrix: (SOIL/SED/WATER) SOIL	Lab Sample ID: 8215001019		
Sample wt/vol: 30.0 (g/mL) g	Lab File ID: NLL22C19		
Level: (LOW/MED) LOW	Extraction: (Type) SONG		
% Moisture: 13.	Decanted: (Y/N) N	Date Received: 08/02/2008	
Concentrated Extract Volume: 500. (uL)	Date Extracted: 08/04/2008		
Injection Volume: 1.0 (uL) GPC Factor: 2.0	Date Analyzed: 08/15/2008		
GPC Cleanup: (Y/N) Y pH: 7.4	Dilution Factor: 1.0		

CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01 100020-99-0	1,2,3,4-Tetrahydropentalene, 1,1-dimethyl	6.40	150	JN
02 1454-85-9	1-Heptadecanol	14.07	170	JN
03 37982-04-0	4-Quinolinol, 4-butyldecahydro-1,2-dimethyl	14.38	100	JN
04 7206-21-5	5-Octadecene, (E)-	14.97	200	JN
05 100016-00-0	Docosa-2,6,10,14,18-pentaen-22-al, 2,6,1	16.37	99.	JN
06 100013-95-0	14-Heptadecenal	16.49	150	JN
07 18435-45-5	1-Nonadecene	16.87	510	JN
08 85-44-9	Phthalic anhydride	17.66	200	JN
09 18435-45-5	1-Nonadecene	18.35	120	JN
10 1120-72-5	Cyclopentanone, 2-methyl-	19.15	120	JN
11 100017-94-0	Tetracyclo[6.3.1.2(9,12).0(1,5)]tetradec	20.10	100	JN
12 4545-68-0	Neoclovene	20.25	720	JN
13 83-47-6	.gamma.-Sitosterol	20.79	130	JN
14 100017-97-0	Acetic acid, 3-hydroxy-7-isopropenyl-1,4	21.48	170	JN
15 53327-21-2	Phosphonothioic difluoride, (pentafluoro	21.61	94.	JN
16 55976-05-1	6-Undecen-3-one, 5-butyl-2,2-dimethyl-,	21.69	83.	JN
17 104576-48-9	Xanthine, 1,3-diethyl-8-[4-[[ethylamino	21.83	210	JN
18 2755-10-4	Pregn-4-ene-3,20-dione, (9.beta.,10.alph	22.63	230	JN
19 475-20-7	1,4-Methanoazulene, decahydro-4,8,8-trim	23.39	190	JN
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
E966796 ^a	Total Alkanes	N/A	1200	JN

^aEPA-designated Registry Number.

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9/25/08 SOM01.2 (6/2007)

1D - FORM I SV-1
 SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J94W3

Lab Name: DataChem Laboratories, Inc.

Contract: EP-W-05-026

Lab Code: DATA~~C~~ Case No.: 37584 Mod. Ref No.: SDG No.: J94S6

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: 8215001020

Sample wt/vol: 30.0 (g/mL) g

Lab File ID: NLL23C20

Level: (LOW/MED) LOW

Extraction: (Type) SONC

% Moisture: 4.8 Decanted: (Y/N) N

Date Received: 08/02/2008

Concentrated Extract Volume: 500. (uL)

Date Extracted: 08/04/2008

Injection Volume: 1.0 (uL) GPC Factor: 2.0

Date Analyzed: 08/15/2008

GPC Cleanup: (Y/N) Y pH: 7.3

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	22.	J Q
108-95-2	Phenol	180	U
111-44-4	Bis(2-chloroethyl)ether	180	U
95-57-8	2-Chlorophenol	180	U
95-48-7	2-Methylphenol	180	U
108-60-1	2,2'-Oxybis(1-chloropropane).	180	U
98-86-2	Acetophenone	14.	J Q
106-44-5	4-Methylphenol	180	U
621-64-7	N-Nitroso-di-n-propylamine	180	U
67-72-1	Hexachloroethane	180	U
98-95-3	Nitrobenzene	180	U
78-59-1	Isophorone	180	U
88-75-5	2-Nitrophenol	180	U
105-67-9	2,4-Dimethylphenol	180	U
111-91-1	Bis(2-chloroethoxy)methane	180	U
120-83-2	2,4-Dichlorophenol	180	U
91-20-3	Naphthalene	11.	J Q
106-47-8	4-Chloroaniline	180	U
87-68-3	Hexachlorobutadiene	180	U
105-60-2	Caprolactam	180	U
59-50-7	4-Chloro-3-methylphenol	180	U
91-57-6	2-Methylnaphthalene	7.7	J Q
77-47-4	Hexachlorocyclopentadiene	180	U
88-06-2	2,4,6-Trichlorophenol	180	U
95-95-4	2,4,5-Trichlorophenol	180	U
92-52-4	1,1'-Biphenyl	180	U
91-58-7	2-Chloronaphthalene	180	U
86-74-4	2-Nitroaniline	350	U
131-11-3	Dimethylphthalate	180	U
606-20-2	2,6-Dinitrotoluene	180	U
206-96-8	Acenaphthylene	180	U
99-09-2	3-Nitroaniline	350	U
83-32-9	Acenaphthene	180	U

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SOM01.2 (6/2007)

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J94W3

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026
 Lab Code: DATAC Case No.: 37584 Mod. Ref No.: SDG No.: J94S6
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 8215001020
 Sample wt/vol: 30.0 (g/mL) g Lab File ID: NLL23C20
 Level: (LOW/MED) LOW Extraction: (Type) SONC
 % Moisture: 4.8 Decanted: (Y/N) N Date Received: 08/02/2008
 Concentrated Extract Volume: 500. (uL) Date Extracted: 08/04/2008
 Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 08/15/2008
 GPC Cleanup: (Y/N) Y pH: 7.3 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	350	U
100-02-7	4-Nitrophenol	350	U
132-64-9	Dibenzofuran	180	U
121-14-2	2,4-Dinitrotoluene	180	U
84-66-2	Diethylphthalate	180	U
86-73-7	Fluorene	180	U
7005-72-3	4-Chlorophenyl-phenylether	180	U
100-01-6	4-Nitroaniline	350	U
534-52-1	4,6-Dinitro-2-methylphenol	350	U
86-30-6	N-Nitrosodiphenylamine ¹	180	U
95-94-3	1,2,4,5-Tetrachlorobenzene	180	U
101-55-3	4-Bromophenyl-phenylether	180	U
118-74-1	Hexachlorobenzene	180	U
1912-24-9	Atrazine	180	U
87-86-5	Pentachlorophenol	350	U
85-01-8	Phenanthrene	57.	J
120-12-7	Anthracene	180	U
86-74-8	Carbazole	180	U
84-74-2	Di-n-butylphthalate	180	U
206-44-0	Fluoranthene	55.	J
129-00-0	Pyrene	64.	J
85-68-7	Butylbenzylphthalate	180	U
91-94-1	3,3'-Dichlorobenzidine	180	U
56-55-3	Benzo(a)anthracene	29.	J
218-01-9	Chrysene	40.	J
117-81-7	Bis(2-ethylhexyl)phthalate	460	Z
117-84-0	Di-n-octylphthalate	180	U
205-99-2	Benzo(b)fluoranthene	46.	J
207-08-9	Benzo(k)fluoranthene	19.	J
50-32-8	Benzo(a)pyrene	38.	J
193-39-5	Indeno(1,2,3-cd)pyrene	39.	J
53-70-3	Dibenzo(a,h)anthracene	180	U
191-24-2	Benzo(g,h,i)perylene	26.	J
53-90-2	2,3,4,6-Tetrachlorophenol	180	U

¹Cannot be separated from Diphenylamine

9/25/08 SOM01.2 (6/2007)

1K - FORM I SV-TIC
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

J94W3

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026
 Lab Code: DATA~~C~~ Case No.: 37584 Mod. Ref No.: SDG No.: J94S6
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 8215001020
 Sample wt/vol: 30.0 (g/mL) g Lab File ID: NLL23C20
 Level: (LOW/MED) LOW Extraction: (Type) SONC
 % Moisture: 4.8 Decanted: (Y/N) N Date Received: 08/02/2008
 Concentrated Extract Volume: 500. (uL) Date Extracted: 08/04/2008
 Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 08/15/2008
 GPC Cleanup: (Y/N) Y pH: 7.3 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	64437-47-4	Hexadecen-1-ol, trans-9-	14.07	250	JN
02	15677-71-1	9-Octadecene, 1,1-dimethoxy-, (Z)-	14.71	72.	JN
03	15965-99-8	Oxirane, [(hexadecyloxy)methyl]-	14.97	380	JN
04	21078-65-9	1-Decanol, 2-ethyl-	15.37	180	JN
05	54966-22-2	Pyridine, 1-acetyl-1,2,3,4-tetrahydro-5-	15.46	73.	JN
06	100009-91-0	Farnesol isomer a	16.36	73.	JN
07	5353-25-3	Ethanol, 2-(9-octadecenoxy)-, (Z)-	16.50	230	JN
08	600-32-8	Butanoic acid, 2,3-dichloro-	16.70	120	JN
09	3347-22-6	Dithianone	17.65	280	JN
10	35170-15-1	Uridine, 2'-deoxy-, 3',5'-bis(trifluoromethyl)-	17.80	130	JN
11	5076-20-0	Oxirane, tetramethyl-	18.44	88.	JN
12	34995-40-9	6-Azaspiro[2.5]octa-4,7-diene-6-carboxyl	18.75	89.	JN
13	3206-73-3	dl-6-Thioctic amide	19.11	89.	JN
14	56782-73-1	Tricyclo[3.3.1.13,7]decanone, 4-(acetyloxy)-	19.16	77.	JN
15	193-43-1	Indeno[1,2,3-cd]fluoranthene	19.52	98.	JN
16	83-47-6	.gamma.-Sitosterol	20.82	590	JN
17	107729-05-5	5-(1-Naphthyl)tricyclo[4.1.0.0]hept-3-en	21.03	83.	JN
18	100013-00-0	11-Tetradecyn-1-ol	21.47	150	JN
19	85-44-9	Phthalic anhydride	21.84	190	JN
20	604-39-7	Androst-4-en-3-one, 17-hydroxy-, (10.alp)	22.62	400	JN
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796 ^a	Total Alkanes	N/A	2700	JN

^aEPA-designated Registry Number.

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9/25/08

SOM01.2 (6/2007)

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J94W4

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026
 Lab Code: DATAC Case No.: 37584 Mod. Ref No.: SDG No.: J94S6
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 8215001021
 Sample wt/vol: 30.0 (g/mL) g Lab File ID: NLL12C21
 Level: (LOW/MED) LOW Extraction: (Type) SONC
 % Moisture: 36. Decanted: (Y/N) N Date Received: 08/02/2008
 Concentrated Extract Volume: 500. (uL) Date Extracted: 08/04/2008
 Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 08/15/2008
 GPC Cleanup: (Y/N) Y pH: 8.7 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	270	U
108-95-2	Phenol	270	U
111-44-4	Bis(2-chloroethyl)ether	270	U
95-57-8	2-Chlorophenol	270	U
95-48-7	2-Methylphenol	270	U
108-60-1	2,2'-Oxybis(1-chloropropane)	270	U
98-86-2	Acetophenone	20.	J
106-44-5	4-Methylphenol	270	U
621-64-7	N-Nitroso-di-n-propylamine	270	U
67-72-1	Hexachloroethane	270	U
98-95-3	Nitrobenzene	270	U
78-59-1	Isophorone	270	U
88-75-5	2-Nitrophenol	270	U
105-67-9	2,4-Dimethylphenol	270	U
111-91-1	Bis(2-chloroethoxy)methane	270	U
120-83-2	2,4-Dichlorophenol	270	U
91-20-3	Naphthalene	270	U
106-47-8	4-Chloroaniline	270	U
87-68-3	Hexachlorobutadiene	270	U
105-60-2	Caprolactam	270	U
59-50-7	4-Chloro-3-methylphenol	270	U
91-57-6	2-Methylnaphthalene	270	U
77-47-4	Hexachlorocyclopentadiene	270	U
88-06-2	2,4,6-Trichlorophenol	270	U
95-95-4	2,4,5-Trichlorophenol	270	U
92-52-4	1,1'-Biphenyl	270	U
91-58-7	2-Chloronaphthalene	270	U
88-74-4	2-Nitroaniline	520	U
131-11-3	Dimethylphthalate	270	U
606-20-2	2,6-Dinitrotoluene	270	U
208-96-8	Acenaphthylene	270	U
99-09-2	3-Nitroaniline	520	U
83-32-9	Acenaphthene	270	U

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9/25/08 S0M01.2 (6/2007)

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J94W4

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026
 Lab Code: DATAC Case No.: 37584 Mod. Ref No.: SDG No.: J94S6
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 8215001021
 Sample wt/vol: 30.0 (g/mL) g Lab File ID: NLL12C21
 Level: (LOW/MED) LOW Extraction: (Type) SONC
 % Moisture: 36. Decanted: (Y/N) N Date Received: 08/02/2008
 Concentrated Extract Volume: 500. (uL) Date Extracted: 08/04/2008
 Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 08/15/2008
 GPC Cleanup: (Y/N) Y pH: 8.7 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2,4-Dinitrophenol	520	UJ
100-02-7	4-Nitrophenol	520	U
132-64-9	Dibenzofuran	270	U
121-14-2	2,4-Dinitrotoluene	270	U
84-66-2	Diethylphthalate	270	U
86-73-7	Fluorene	270	U
7005-72-3	4-Chlorophenyl-phenylether	270	U
100-01-6	4-Nitroaniline	520	U
534-52-1	4,6-Dinitro-2-methylphenol	520	U
86-30-6	N-Nitrosodiphenylamine ¹	270	U
95-94-3	1,2,4,5-Tetrachlorobenzene	270	U
101-55-3	4-Bromophenyl-phenylether	270	U
118-74-1	Hexachlorobenzene	270	U
1912-24-9	Atrazine	270	U
87-86-5	Pentachlorophenol	520	U
85-01-8	Phenanthrene	270	U
120-12-7	Anthracene	270	U
86-74-8	Carbazole	270	U
84-74-2	Di-n-butylphthalate	270	U
206-44-0	Fluoranthene	270	UJ
129-00-0	Pyrene	270	UJ
85-68-7	Butylbenzylphthalate	270	U
91-94-1	3,3'-Dichlorobenzidine	270	U
56-55-3	Benzo(a)anthracene	270	UJ
218-01-9	Chrysene	270	UJ
117-81-7	Bis(2-ethylhexyl)phthalate	660	X
117-84-0	Di-n-octylphthalate	270	U
205-99-2	Benzo(b)fluoranthene	270	U
207-08-9	Benzo(k)fluoranthene	270	U
50-32-8	Benzo(a)pyrene	270	U
193-39-5	Indeno(1,2,3-cd)pyrene	270	U
53-70-3	Dibenzo(a,h)anthracene	270	U
191-24-2	Benzo(g,h,i)perylene	270	U
58-90-2	2,3,4,6-Tetrachlorophenol	270	U

¹Cannot be separated from Diphenylamine

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965108

SOM01.2 (6/2007)

1K - FORM I SV-TIC
 SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

J94W4

Lab Name: <u>DataChem Laboratories, Inc.</u>	Contract: <u>EP-W-05-026</u>		
Lab Code: <u>DATAAC</u>	Case No.: <u>37584</u>	Mod. Ref No.: _____	SDG No.: <u>J94S6</u>
Matrix: (SOIL/SED/WATER) <u>SOIL</u>	Lab Sample ID: <u>8215001021</u>		
Sample wt/vol: <u>30.0</u> (g/mL) <u>g</u>	Lab File ID: <u>NLL12C21</u>		
Level: (LOW/MED) <u>LOW</u>	Extraction: (Type) <u>SONC</u>		
% Moisture: <u>36.</u>	Decanted: (Y/N) <u>N</u>	Date Received: <u>08/02/2008</u>	
Concentrated Extract Volume: <u>500.</u> (uL)	Date Extracted: <u>08/04/2008</u>		
Injection Volume: <u>1.0</u> (uL)	GPC Factor: <u>2.0</u>	Date Analyzed: <u>08/15/2008</u>	
GPC Cleanup: (Y/N) <u>Y</u>	pH: <u>8.7</u>	Dilution Factor: <u>1.0</u>	

CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01 100011-92-0	1,3-Diaza-5,6-dedihydrocyclohexan-4-one-	6.41	480	JN
02 85-44-9	Phthalic anhydride	17.67	200	JN
03 13832-89-8	3,7,11-Trimethyl-dodeca-2,4,6,10-tetraen	20.18	170	JN
04 88-99-3	1,2-Benzenedicarboxylic acid	21.86	220	JN
05				
06				
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27				
28				
29				
30				
E966796 ^a	Total Alkanes	N/A	110	JN

^aEPA-designated Registry Number:

1161

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9/25/08 SOM01.2 (6/2007)

ID - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J94W5

Lab Name: DataChem Laboratories, Inc.	Contract: EP-W-05-026
Lab Code: DATAC Case No.: 37584	Mod. Ref No.: SDG No.: J94S6
Matrix: (SOIL/SED/WATER) SOIL	Lab Sample ID: 8215001022
Sample wt/vol: 30.0 (g/mL) g	Lab File ID: NLL24C22
Level: (LOW/MED) LOW	Extraction: (Type) SONC
% Moisture: 14.	Date Received: 08/02/2008
Concentrated Extract Volume: 500. (uL)	Date Extracted: 08/04/2008
Injection Volume: 1.0 (uL) GPC Factor: 2.0	Date Analyzed: 08/16/2008
GPC Cleanup: (Y/N) Y pH: 8.7	Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
100-52-7	Benzaldehyde	28.	J
108-95-2	Phenol	200	U
111-44-4	Bis(2-chloroethyl)ether	200	U
95-57-8	2-Chlorophenol	200	U
95-48-7	2-Methylphenol	200	U
108-60-1	2,2'-Oxybis(1-chloropropane)	200	U
98-86-2	Acetophenone	19.	J
106-44-5	4-Methylphenol	200	U
621-64-7	N-Nitroso-di-n-propylamine	200	UJ
67-72-1	Hexachloroethane	200	U
98-95-3	Nitrobenzene	200	UJ
78-59-1	Isophorone	200	UJ
88-75-5	2-Nitrophenol	200	U
105-67-9	2,4-Dimethylphenol	200	U
111-91-1	Bis(2-chloroethoxy)methane	200	U
120-83-2	2,4-Dichlorophenol	200	U
91-20-3	Naphthalene	200	U
106-47-8	4-Chloroaniline	200	U
87-68-3	Hexachlorobutadiene	200	U
105-60-2	Caprolactam	200	U
59-50-7	4-Chloro-3-methylphenol	200	U
91-57-6	2-Methylnaphthalene	200	U
77-47-4	Hexachlorocyclopentadiene	200	U
88-06-2	2,4,6-Trichlorophenol	200	U
95-95-4	2,4,5-Trichlorophenol	200	U
92-52-4	1,1'-Biphenyl	200	U
91-58-7	2-Chloronaphthalene	200	U
88-74-4	2-Nitroaniline	380	UJ
131-11-3	Dimethylphthalate	200	U
606-20-2	2,6-Dinitrotoluene	200	U
208-96-8	Acenaphthylene	200	U
99-09-2	3-Nitroaniline	380	U
83-32-9	Acenaphthene	200	U

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SOM01.2 (6/2007)

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J94W5

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026
 Lab Code: DATAC Case No.: 37584 Mod. Ref No.: SDG No.: J94S6
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 8215001022
 Sample wt/vol: 30.0 (g/mL) g Lab File ID: NLL24C22
 Level: (LOW/MED) LOW Extraction: (Type) SONC
 % Moisture: 14. Decanted: (Y/N) N Date Received: 08/02/2008
 Concentrated Extract Volume: 500. (uL) Date Extracted: 08/04/2008
 Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 08/16/2008
 GPC Cleanup: (Y/N) Y pH: 8.7 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
51-28-5	2, 4-Dinitrophenol	380	U
100-02-7	4-Nitrophenol	380	U
132-64-9	Dibenzofuran	200	U
121-14-2	2, 4-Dinitrotoluene	200	U
84-66-2	Diethylphthalate	200	U
86-73-7	Fluorene	200	U
7005-72-3	4-Chlorophenyl-phenylether	200	U
100-01-6	4-Nitroaniline	380	U
534-52-1	4, 6-Dinitro-2-methylphenol	380	U
86-30-6	N-Nitrosodiphenylamine ¹	200	U
95-94-3	1, 2, 4, 5-Tetrachlorobenzene	200	U
101-55-3	4-Bromophenyl-phenylether	200	U
118-74-1	Hexachlorobenzene	200	U
1912-24-9	Atrazine	200	U
87-86-5	Pentachlorophenol	380	U
85-01-8	Phenanthrene	16.	J
120-12-7	Anthracene	200	U
86-74-8	Carbazole	200	U
84-74-2	Di-n-butylphthalate	14.	J
206-44-0	Fluoranthene	19.	J
129-00-0	Pyrene	25.	J
85-68-7	Butylbenzylphthalate	200	U
91-94-1	3, 3'-Dichlorobenzidine	200	U
56-55-3	Benzo(a)anthracene	15.	J
218-01-9	Chrysene	20.	J
117-81-7	Bis(2-ethylhexyl)phthalate	560	Z
117-84-0	Di-n-octylphthalate	200	U
205-99-2	Benzo(b)fluoranthene	31.	J
207-08-9	Benzo(k)fluoranthene	9.9	J
50-32-8	Benzo(a)pyrene	20.	J
193-39-5	Indeno(1, 2, 3-cd)pyrene	24.	J
53-70-3	Dibenzo(a, h)anthracene	200	U
191-24-2	Benzo(g, h, i)perylene	15.	J
56-90-2	2, 3, 4, 6-Tetrachlorophenol	200	U

¹Cannot be separated from Diphenylamine

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9/25/08 SOM01.2 (6/2007)

1K - FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

J94W5

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026
 Lab Code: DATAc Case No.: 37584 Mod. Ref No.: SDG No.: J94S6
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 8215001022
 Sample wt/vol: 30.0 (g/mL) g Lab File ID: NLL24C22
 Level: (LOW/MED) LOW Extraction: (Type) SONC
 % Moisture: 14. Decanted: (Y/N) N Date Received: 08/02/2008
 Concentrated Extract Volume: 500. (uL) Date Extracted: 08/04/2008
 Injection Volume: 1.0 (uL) GPC Factor: 2.0 Date Analyzed: 08/16/2008
 GPC Cleanup: (Y/N) Y pH: 8.7 Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01 135-79-5	6-Isopropylquinoline	6.40	140	JN
02 1559-34-8	3,6,9,12-Tetraoxahexadecan-1-ol	14.75	85.	JN
03 2461-18-9	Oxirane, [(dodecyloxy)methyl]-	14.97	200	JN
04 100018-93-0	4-Pentenenitrile, 4-methyl-2-[(3,7-dimet	16.36	93.	JN
05 629-96-9	1-Eicosanol	16.88	310	JN
06 131-89-5	Phenol, 2-cyclohexyl-4,6-dinitro-	17.46	110	JN
07 85-44-9	Phthalic anhydride	17.65	240	JN
08 2199-06-6	Trichothec-9-en-8-one, 12,13-epoxy-4-hyd	20.16	190	JN
09 100013-97-0	(s)-2,5,5,8-Tetramethyl-1,2,3,6-tetrahyd	20.25	280	JN
10 84-75-3	1,2-Benzenedicarboxylic acid, dihexyl es	21.82	270	JN
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29				
30				
E966796*	Total Alkanes	N/A	1200	JN

*EPA-designated Registry Number.

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 9/25/08 SOM01.2 (6/2007)

1G - FORM I PEST
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J94S6

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026
 Lab Code: DATAAC Case No.: 37584 Mod. Ref No.: SDG No.: J94S6
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 8215001001
 Sample wt/vol: 30.0 (g/mL) g Lab File ID: 21080809A022, 21080809B022
 % Moisture: 16. Decanted: (Y/N) N Date Received: 08/02/2008
 Extraction: (Type) SONC Date Extracted: 08/04/2008
 Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/10/2008
 Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0
 GPC Cleanup: (Y/N) Y pH: 8.2 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
319-84-6	alpha-BHC	2.0	U
319-85-7	beta-BHC	2,00.18	JPU
319-86-8	delta-BHC	2.0	U
58-89-9	gamma-BHC (Lindane)	2.0	U
76-44-8	Heptachlor	2.0	U
309-00-2	Aldrin	2.0	U
1024-57-3	Heptachlor epoxide	2,00.69	JPU
959-98-8	Endosulfan I	2.0	U
60-57-1	Dieldrin	3,90.03	JPU
72-55-9	4,4'-DDE	4.6	
72-20-8	Endrin	3,90.91	JPU
33213-65-9	Endosulfan II	3,90.42	JPU
72-54-8	4,4'-DDD	1.9	JPA
1031-07-8	Endosulfan sulfate	3.9	U
50-29-3	4,4'-DDT	15.	
72-43-5	Methoxychlor	20 2.1	JPU
53494-70-5	Endrin ketone	3.9	U
7421-93-4	Endrin aldehyde	3,90.65	JPU
5103-71-9	alpha-Chlordane	4.6	X
5103-74-2	gamma-Chlordane	3.8	
8001-35-2	Toxaphene	200	U


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1G - FORM I PEST
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J94S7

Lab Name: <u>DataChem Laboratories, Inc.</u>	Contract: <u>EP-W-05-026</u>		
Lab Code: <u>DATAC</u>	Case No.: <u>37584</u>	Mod. Ref No.: _____	SDG No.: <u>J94S6</u>
Matrix: (SOIL/SED/WATER) <u>SOIL</u>	Lab Sample ID: <u>8215001002</u>		
Sample wt/vol: <u>30.0</u> (g/mL) <u>g</u>	Lab File ID: <u>21080809A023, 21080809B023</u>		
% Moisture: <u>26.</u>	Decanted: (Y/N) <u>N</u>	Date Received: <u>08/02/2008</u>	
Extraction: (Type) <u>SONC</u>	Date Extracted: <u>08/04/2008</u>		
Concentrated Extract Volume: <u>5000</u> (uL)	Date Analyzed: <u>08/10/2008</u>		
Injection Volume: <u>2.0</u> (uL) GPC Factor: <u>2.0</u>	Dilution Factor: <u>1.0</u>		
GPC Cleanup: (Y/N) <u>Y</u> pH: <u>8.7</u>	Sulfur Cleanup: (Y/N) <u>N</u>		

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
319-84-6	alpha-BHC	2.3	U
319-85-7	beta-BHC	0.90	J/Q
319-86-8	delta-BHC	2.3	U
58-89-9	gamma-BHC (Lindane)	2.3	U
76-44-8	Heptachlor	2.3	U
309-00-2	Aldrin	2.3	U
1024-57-3	Heptachlor epoxide	2,3 0.68	JP U
959-98-8	Endosulfan I	2.3	U
60-57-1	Dieldrin	4,50.003	JP U
72-55-9	4,4'-DDE	8.7	
72-20-8	Endrin	4,50.33	JP U
33213-65-9	Endosulfan II	1.6	J/Q
72-54-8	4,4'-DDD	4,5 1.3	JP U
1031-07-8	Endosulfan sulfate	4,50.60	JP U
50-29-3	4,4'-DDT	23.	
72-43-5	Methoxychlor	23 2.3	JP U
53494-70-5	Endrin ketone	4.5	U
7421-93-4	Endrin aldehyde	1.4	J/Q
5103-71-9	alpha-Chlordane	2,30.32	JP U
5103-74-2	gamma-Chlordane	0.68	J/Q
8001-35-2	Toxaphene	230	U

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1G - FORM I PEST
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J94S8

Lab Name: <u>DataChem Laboratories, Inc.</u>	Contract: <u>EP-W-05-026</u>		
Lab Code: <u>DATAC</u>	Case No.: <u>37584</u>	Mod. Ref No.: _____	SDG No.: <u>J94S6</u>
Matrix: (SOIL/SED/WATER) <u>SOIL</u>	Lab Sample ID: <u>8215001003</u>		
Sample wt/vol: <u>30.0</u> (g/mL) <u>g</u>	Lab File ID: <u>21080809A024, 21080809B024</u>		
% Moisture: <u>17.</u>	Decanted: (Y/N) <u>N</u>	Date Received: <u>08/02/2008</u>	
Extraction: (Type) <u>SONC</u>	Date Extracted: <u>08/04/2008</u>		
Concentrated Extract Volume: <u>5000</u> (uL)	Date Analyzed: <u>08/10/2008</u>		
Injection Volume: <u>2.0</u> (uL)	GPC Factor: <u>2.0</u>	Dilution Factor: <u>1.0</u>	
GPC Cleanup: (Y/N) <u>Y</u>	pH: <u>8.7</u>	Sulfur Cleanup: (Y/N) <u>N</u>	

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/kg</u>	Q
319-84-6	alpha-BHC	2.0	U
319-85-7	beta-BHC	2.0 0.031	JP U
319-86-8	delta-BHC	2.0	U
58-89-9	gamma-BHC (Lindane)	2.0	U
76-44-8	Heptachlor	2.0	U
309-00-2	Aldrin	2.0	U
1024-57-3	Heptachlor epoxide	2.0 0.49	JP U
959-98-8	Endosulfan I	2.0	U
60-57-1	Dieldrin	4.0 0.25	JP U
72-55-9	4,4'-DDE	15.	
72-20-8	Endrin	4.0 0.27	JP U
33213-65-9	Endosulfan II	4.0 0.11	JP U
72-54-8	4,4'-DDD	24.	
1031-07-8	Endosulfan sulfate	4.0	U
50-29-3	4,4'-DDT	270	E →
72-43-5	Methoxychlor	20.	U
53494-70-5	Endrin ketone	4.0 0.18	JP U
7421-93-4	Endrin aldehyde	4.0 0.32	JP U
5103-71-9	alpha-Chlordane	2.0	U
5103-74-2	gamma-Chlordane	2.0	U
8001-35-2	Toxaphene	200	U

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Report Only 4,4'-DDT
 1G - FORM I PEST
 PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J94S8DL

Lab Name: DataChem Laboratories, Inc.

Contract: EP-W-05-026

Lab Code: DATA Case No.: 37584 Mod. Ref No.: _____ SDG No.: J94S6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 8215001003DL

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 21080809A048, 21080809B048

% Moisture: 17. Decanted: (Y/N) N Date Received: 08/02/2008

Extraction: (Type) SONC Date Extracted: 08/04/2008

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/10/2008

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 8.7 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/kg</u>	Q
319-84-6	alpha-BHC	20.	U
319-85-7	beta-BHC	20.	U
319-86-8	delta-BHC	20.	U
58-89-9	gamma-BHC (Lindane)	20.	U
76-44-8	Heptachlor	20.	U
309-00-2	Aldrin	20.	U
1024-57-3	Heptachlor epoxide	20.	U
959-98-8	Endosulfan I	20.	U
60-57-1	Dieldrin	40.	U
72-55-9	4,4'-DDE	18.	JD
72-20-8	Endrin	40.	U
33213-65-9	Endosulfan II	40.	U
72-54-8	4,4'-DDD	24.	JD
1031-07-8	Endosulfan sulfate	40.	U
50-29-3	4,4'-DDT	350	<i>P</i> → Repor
72-43-5	Methoxychlor	200	U
53494-70-5	Endrin ketone	40.	U
7421-93-4	Endrin aldehyde	40.	U
5103-71-9	alpha-Chlordane	20.	U
5103-74-2	gamma-Chlordane	20.	U
8001-35-2	Toxaphene	2000	U

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1G - FORM I PEST
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J94S9

Lab Name: <u>DataChem Laboratories, Inc.</u>	Contract: <u>EP-W-05-026</u>			
Lab Code: <u>DATAC</u>	Case No.: <u>37584</u>	Mod. Ref No.: _____	SDG No.: <u>J94S6</u>	
Matrix: (SOIL/SED/WATER) <u>SOIL</u>	Lab Sample ID: <u>8215001004</u>			
Sample wt/vol: <u>30.0</u> (g/mL) g	Lab File ID: <u>21080809A025, 21080809B025</u>			
% Moisture: <u>21.</u>	Decanted: (Y/N) <u>N</u>	Date Received: <u>08/02/2008</u>		
Extraction: (Type) <u>SONC</u>	Date Extracted: <u>08/04/2008</u>			
Concentrated Extract Volume: <u>5000</u> (uL)	Date Analyzed: <u>08/10/2008</u>			
Injection Volume: <u>2.0</u> (uL) GPC Factor: <u>2.0</u>	Dilution Factor: <u>1.0</u>			
GPC Cleanup: (Y/N) <u>Y</u> pH: <u>8.4</u>	Sulfur Cleanup: (Y/N) <u>N</u>			

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/kg</u>	Q
319-84-6	alpha-BHC	<u>2,20.38</u>	<u>JP</u> <u>U</u>
319-85-7	beta-BHC	<u>0.57</u>	<u>J</u> <u>Q</u>
319-86-8	delta-BHC	<u>2.2</u>	<u>U</u>
58-89-9	gamma-BHC (Lindane)	<u>2.2</u>	<u>U</u>
76-44-8	Heptachlor	<u>2.2</u>	<u>U</u>
309-00-2	Aldrin	<u>2.2</u>	<u>U</u>
1024-57-3	Heptachlor epoxide	<u>2,20.53</u>	<u>JP</u> <u>U</u>
959-98-8	Endosulfan I	<u>2.2</u>	<u>U</u>
60-57-1	Dieldrin	<u>4,20.60</u>	<u>JP</u> <u>U</u>
72-55-9	4,4'-DDE	<u>4,23.3</u>	<u>JP</u> <u>U</u>
72-20-8	Endrin	<u>4,20.28</u>	<u>JP</u> <u>U</u>
33213-65-9	Endosulfan II	<u>4,20.23</u>	<u>JP</u> <u>U</u>
72-54-8	4,4'-DDD	<u>1.1</u>	<u>JP</u> <u>Q</u>
1031-07-8	Endosulfan sulfate	<u>4,20.51</u>	<u>JP</u> <u>U</u>
50-29-3	4,4'-DDT	<u>13.</u>	
72-43-5	Methoxychlor	<u>220.00</u>	<u>JP</u> <u>U</u>
53494-70-5	Endrin ketone	<u>4.2</u>	<u>U</u>
7421-93-4	Endrin aldehyde	<u>4,20.93</u>	<u>JP</u> <u>U</u>
5103-71-9	alpha-Chlordane	<u>2.2</u>	<u>U</u>
5103-74-2	gamma-Chlordane	<u>2.2</u>	<u>U</u>
8001-35-2	Toxaphene	<u>220</u>	<u>U</u>

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1G - FORM I PEST
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J94T0

Lab Name: DataChem Laboratories, Inc.

Contract: EP-W-05-026

Lab Code: DATAC Case No.: 37584 Mod. Ref No.: _____ SDG No.: J94S6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 8215001005

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 21080809A026, 21080809B026

% Moisture: 7.4 Decanted: (Y/N) N Date Received: 08/02/2008

Extraction: (Type) SONC Date Extracted: 08/04/2008

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/10/2008

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.5 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/kg</u>	Q
319-84-6	alpha-BHC	1.8	U
319-85-7	beta-BHC	1.8 0.36	JP U
319-86-8	delta-BHC	1.8	U
58-89-9	gamma-BHC (Lindane)	1.8	U
76-44-8	Heptachlor	1.8 0.19	JP U
309-00-2	Aldrin	1.8	U
1024-57-3	Heptachlor epoxide	1.8	U
959-98-8	Endosulfan I	1.8	U
60-57-1	Dieldrin	3.6	U
72-55-9	4,4'-DDE	9.7	
72-20-8	Endrin	3.6 0.53	JP U
33213-65-9	Endosulfan II	0.51	J Q
72-54-8	4,4'-DDD	3.6 0.40	JP U
1031-07-8	Endosulfan sulfate	0.88	J Q
50-29-3	4,4'-DDT	22.	
72-43-5	Methoxychlor	1.8 1.7	JP U
53494-70-5	Endrin ketone	1.3	J Q
7421-93-4	Endrin aldehyde	3.6 0.74	JP U
5103-71-9	alpha-Chlordane	1.8	U
5103-74-2	gamma-Chlordane	1.8	U
8001-35-2	Toxaphene	180	U

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SOM01.2 (6/2007)

1G - FORM I PEST
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J94T1

Lab Name: <u>DataChem Laboratories, Inc.</u>	Contract: <u>EP-W-05-026</u>		
Lab Code: <u>DATA</u>	Case No.: <u>37584</u>	Mod. Ref No.: _____	SDG No.: <u>J94S6</u>
Matrix: (SOIL/SED/WATER) <u>SOIL</u>	Lab Sample ID: <u>8215001006</u>		
Sample wt/vol: <u>30.0</u> (g/mL) <u>g</u>	Lab File ID: <u>21080809A027, 21080809B027</u>		
% Moisture: <u>9.6</u>	Decanted: (Y/N) <u>N</u>	Date Received: <u>08/02/2008</u>	
Extraction: (Type) <u>SONC</u>	Date Extracted: <u>08/04/2008</u>		
Concentrated Extract Volume: <u>5000</u> (uL)	Date Analyzed: <u>08/10/2008</u>		
Injection Volume: <u>2.0</u> (uL) GPC Factor: <u>2.0</u>	Dilution Factor: <u>1.0</u>		
GPC Cleanup: (Y/N) <u>Y</u> pH: <u>8.6</u>	Sulfur Cleanup: (Y/N) <u>N</u>		

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/kg</u>	Q
319-84-6	alpha-BHC	1.9	U
319-85-7	beta-BHC	1.9	U
319-86-8	delta-BHC	1.9	U
58-89-9	gamma-BHC (Lindane)	1.9	U
76-44-8	Heptachlor	1.9 0.13	JP U
309-00-2	Aldrin	1.9	U
1024-57-3	Heptachlor epoxide	1.9	U
959-98-8	Endosulfan I	1.9	U
60-57-1	Dieldrin	3.6	U
72-55-9	4,4'-DDE	2.4	J Q
72-20-8	Endrin	3.6	U
33213-65-9	Endosulfan II	3.6	U
72-54-8	4,4'-DDD	0.041	JP Q
1031-07-8	Endosulfan sulfate	3.6	U
50-29-3	4,4'-DDT	3.3	J Q
72-43-5	Methoxychlor	19.	U
53494-70-5	Endrin ketone	3.6	U
7421-93-4	Endrin aldehyde	3.6 0.056	JP U
5103-71-9	alpha-Chlordane	1.9	U
5103-74-2	gamma-Chlordane	1.9	U
8001-35-2	Toxaphene	190	U

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1G - FORM I PEST
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J94T2

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026
 Lab Code: DATA Case No.: 37584 Mod. Ref No.: _____ SDG No.: J94S6
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 8215001007
 Sample wt/vol: 30.0 (g/mL) g Lab File ID: 21080809A028, 21080809B028
 % Moisture: 3.7 Decanted: (Y/N) N Date Received: 08/02/2008
 Extraction: (Type) SONC Date Extracted: 08/04/2008
 Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/10/2008
 Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0
 GPC Cleanup: (Y/N) Y pH: 7.2 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
319-84-6	alpha-BHC	1.8	U
319-85-7	beta-BHC	0.29	J
319-86-8	delta-BHC	1.8	U
58-89-9	gamma-BHC (Lindane)	1.8	U
76-44-8	Heptachlor	1.8 0.19	JP U
309-00-2	Aldrin	1.8	U
1024-57-3	Heptachlor epoxide	1.8 1.0	JP U
959-98-8	Endosulfan I	1.8	U
60-57-1	Dieldrin	3.4	U
72-55-9	4,4'-DDE	12.	
72-20-8	Endrin	3.4 1.1	JP U
33213-65-9	Endosulfan II	3.4 0.51	JP U
72-54-8	4,4'-DDD	3.4 0.79	JP U
1031-07-8	Endosulfan sulfate	3.4	U
50-29-3	4,4'-DDT	19.	
72-43-5	Methoxychlor	18.	U
53494-70-5	Endrin ketone	3.4	U
7421-93-4	Endrin aldehyde	3.4 0.25	JP U
5103-71-9	alpha-Chlordane	1.8 0.096	JP U
5103-74-2	gamma-Chlordane	1.8	U
8001-35-2	Toxaphene	180	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J94T3

Lab Name: <u>DataChem Laboratories, Inc.</u>	Contract: <u>EP-W-05-026</u>
Lab Code: <u>DATA C</u>	Case No.: <u>37584</u> Mod. Ref No.: _____ SDG No.: <u>J94S6</u>
Matrix: (SOIL/SED/WATER) <u>SOIL</u>	Lab Sample ID: <u>8215001008</u>
Sample wt/vol: <u>30.0</u> (g/mL) <u>g</u>	Lab File ID: <u>21080809A029, 21080809B029</u>
% Moisture: <u>9.2</u> Decanted: (Y/N) <u>N</u>	Date Received: <u>08/02/2008</u>
Extraction: (Type) <u>SONC</u>	Date Extracted: <u>08/04/2008</u>
Concentrated Extract Volume: <u>5000</u> (uL)	Date Analyzed: <u>08/10/2008</u>
Injection Volume: <u>2.0</u> (uL) GPC Factor: <u>2.0</u>	Dilution Factor: <u>1.0</u>
GPC Cleanup: (Y/N) <u>Y</u> pH: <u>8.8</u>	Sulfur Cleanup: (Y/N) <u>N</u>

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
319-84-6	alpha-BHC	1.9	U
319-85-7	beta-BHC	0.063	JP
319-86-8	delta-BHC	1.9	U
58-89-9	gamma-BHC (Lindane)	1.9	U
76-44-8	Heptachlor	1.9	U
309-00-2	Aldrin	1.9	U
1024-57-3	Heptachlor epoxide	1.9	U
959-98-8	Endosulfan I	1.9	U
60-57-1	Dieldrin	3.6	U
72-55-9	4, 4'-DDE	3.6 0.43	JP U
72-20-8	Endrin	3.6	U
33213-65-9	Endosulfan II	3.6	U
72-54-8	4, 4'-DDD	3.6	U
1031-07-8	Endosulfan sulfate	3.6	U
50-29-3	4, 4'-DDT	0.25	JP
72-43-5	Methoxychlor	19.	U
53494-70-5	Endrin ketone	3.6	U
7421-93-4	Endrin aldehyde	3.6	U
5103-71-9	alpha-Chlordane	1.9	U
5103-74-2	gamma-Chlordane	1.9 0.032	JP U
8001-35-2	Toxaphene	190	U

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1G - FORM I PEST
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J94T4

Lab Name: DataChem Laboratories, Inc.

Contract: EP-W-05-026

Lab Code: DATAC Case No.: 37584 Mod. Ref No.: _____ SDG No.: J94S6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 8215001011

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 21080809A032, 21080809B032

% Moisture: 2.9 Decanted: (Y/N) N Date Received: 08/02/2008

Extraction: (Type) SONC Date Extracted: 08/04/2008

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/10/2008

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
319-84-6	alpha-BHC	1.8	U
319-85-7	beta-BHC	1.80.17	JP U
319-86-8	delta-BHC	1.8	U
58-89-9	gamma-BHC (Lindane)	1.8	U
76-44-8	Heptachlor	0.11	JP Q
309-00-2	Aldrin	1.8	U
1024-57-3	Heptachlor epoxide	1.8	U
959-98-8	Endosulfan I	1.8	U
60-57-1	Dieldrin	0.27	J Q
72-55-9	4,4'-DDE	5.8	
72-20-8	Endrin	3.40.19	JP U
33213-65-9	Endosulfan II	3.40.17	JP U
72-54-8	4,4'-DDD	3.40.13	JP U
1031-07-8	Endosulfan sulfate	3.4	U
50-29-3	4,4'-DDT	5.1	
72-43-5	Methoxychlor	18.	U
53494-70-5	Endrin ketone	3.40.62	JP U
7421-93-4	Endrin aldehyde	3.40.93	JP U
5103-71-9	alpha-Chlordane	1.80.067	JP U
5103-74-2	gamma-Chlordane	1.8	U
8001-35-2	Toxaphene	180	U

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1G - FORM I PEST
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J94T5

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026
 Lab Code: DATAAC Case No.: 37584 Mod. Ref No.: SDG No.: J94S6
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 8215001012
 Sample wt/vol: 30.0 (g/mL) g Lab File ID: 21080809A037, 21080809B037
 % Moisture: 3.9 Decanted: (Y/N) N Date Received: 08/02/2008
 Extraction: (Type) SONC Date Extracted: 08/04/2008
 Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/10/2008
 Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0
 GPC Cleanup: (Y/N) Y pH: 7.3 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
319-84-6	alpha-BHC	1.8 ± .73	JP U
319-85-7	beta-BHC	1.8 ± .34	JP U
319-86-8	delta-BHC	1.8	U
58-89-9	gamma-BHC (Lindane)	1.8	U
76-44-8	Heptachlor	0.34	JP Q
309-00-2	Aldrin	1.8	U
1024-57-3	Heptachlor epoxide	0.66	JP Q
959-98-8	Endosulfan I	1.8	U
60-57-1	Dieldrin	3.4	U
72-55-9	4, 4'-DDE	12.	
72-20-8	Endrin	3.4 ± .27	JP U
33213-65-9	Endosulfan II	3.4 ± .37	JP U
72-54-8	4, 4'-DDD	1.3	JP Q
1031-07-8	Endosulfan sulfate	3.4	U
50-29-3	4, 4'-DDT	30.	
72-43-5	Methoxychlor	18 ± 6	JP U
53494-70-5	Endrin ketone	3.4	U
7421-93-4	Endrin aldehyde	3.4 ± .67	JP U
5103-71-9	alpha-Chlordane	1.8 ± .065	JP U
5103-74-2	gamma-Chlordane	1.8	U
8001-35-2	Toxaphene	180	U

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1G - FORM I PEST
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J94T6

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026
 Lab Code: DATAC Case No.: 37584 Mod. Ref No.: SDG No.: J94S6
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 8215001013
 Sample wt/vol: 30.0 (g/mL) g Lab File ID: 21080809A038, 21080809B038
 % Moisture: 11. Decanted: (Y/N) N Date Received: 08/02/2008
 Extraction: (Type) SONC Date Extracted: 08/04/2008
 Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/10/2008
 Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0
 GPC Cleanup: (Y/N) Y pH: 8.3 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
319-84-6	alpha-BHC	1.9	U
319-85-7	beta-BHC	1.9	U
319-86-8	delta-BHC	1.9	U
58-89-9	gamma-BHC (Lindane)	1.9	U
76-44-8	Heptachlor	1.9	U
309-00-2	Aldrin	1.9	U
1024-57-3	Heptachlor epoxide	1.9 0.20	JP U
959-98-8	Endosulfan I	1.9	U
60-57-1	Dieldrin	0.50	J Q
72-55-9	4,4'-DDE	3.2	J Q
72-20-8	Endrin	3.7 0.090	JP U
33213-65-9	Endosulfan II	0.23	JP Q
72-54-8	4,4'-DDD	3.7 0.72	JP U
1031-07-8	Endosulfan sulfate	3.7	U
50-29-3	4,4'-DDT	4.8	
72-43-5	Methoxychlor	19.	U
53494-70-5	Endrin ketone	3.7	U
7421-93-4	Endrin aldehyde	3.7 0.35	JP U
5103-71-9	alpha-Chlordane	1.9	U
5103-74-2	gamma-Chlordane	1.9 0.29	JP U
8001-35-2	Toxaphene	190	U

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SOM01.2 (6/2007)

1G - FORM I PEST
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J94T7

Lab Name: DataChem Laboratories, Inc.	Contract: EP-W-05-026
Lab Code: DATA C Case No.: 37584	Mod. Ref No.: SDG No.: J94S6
Matrix: (SOIL/SED/WATER) SOIL	Lab Sample ID: 8215001014
Sample wt/vol: 30.0 (g/mL)	Lab File ID: 21080809A039, 21080809B039
% Moisture: 17. Decanted: (Y/N) N	Date Received: 08/02/2008
Extraction: (Type) SONC	Date Extracted: 08/04/2008
Concentrated Extract Volume: 5000 (uL)	Date Analyzed: 08/10/2008
Injection Volume: 2.0 (uL) GPC Factor: 2.0	Dilution Factor: 1.0
GPC Cleanup: (Y/N) Y pH: 8.0	Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
319-84-6	alpha-BHC	2.0	U
319-85-7	beta-BHC	0.22	J
319-86-8	delta-BHC	2.0	U
58-89-9	gamma-BHC (Lindane)	2.0	U
76-44-8	Heptachlor	2.0 0.13	JP U
309-00-2	Aldrin	2.0	U
1024-57-3	Heptachlor epoxide	2.0 0.24	JP U
959-98-8	Endosulfan I	2.0	U
60-57-1	Dieldrin	4.00-44	JP U
72-55-9	4, 4'-DDE	21.	
72-20-8	Endrin	4.00-004	JP U
33213-65-9	Endosulfan II	4.0 0.14	JP U
72-54-8	4, 4'-DDD	5.6	
1031-07-8	Endosulfan sulfate	4.0	U
50-29-3	4, 4'-DDT	27.	
72-43-5	Methoxychlor	20.	U
53494-70-5	Endrin ketone	4.0	U
7421-93-4	Endrin aldehyde	4.0 0.05	JP U
5103-71-9	alpha-Chlordane	2.0 0.13	JP U
5103-74-2	gamma-Chlordane	2.0 0.63	JP U
8001-35-2	Toxaphene	200	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J94T8

Lab Name: <u>DataChem Laboratories, Inc.</u>	Contract: <u>EP-W-05-026</u>			
Lab Code: <u>DATAC</u>	Case No.: <u>37584</u>	Mod. Ref No.: _____	SDG No.: <u>J94S6</u>	
Matrix: (SOIL/SED/WATER) <u>SOIL</u>	Lab Sample ID: <u>8215001015</u>			
Sample wt/vol: <u>30.0</u> (g/mL) <u>g</u>	Lab File ID: <u>21080809A040, 21080809B040</u>			
% Moisture: <u>4.2</u>	Decanted: (Y/N) <u>N</u>	Date Received: <u>08/02/2008</u>		
Extraction: (Type) <u>SONC</u>	Date Extracted: <u>08/04/2008</u>			
Concentrated Extract Volume: <u>5000</u> (uL)	Date Analyzed: <u>08/10/2008</u>			
Injection Volume: <u>2.0</u> (uL) GPC Factor: <u>2.0</u>	Dilution Factor: <u>1.0</u>			
GPC Cleanup: (Y/N) <u>Y</u> pH: <u>7.3</u>	Sulfur Cleanup: (Y/N) <u>N</u>			

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
319-84-6	alpha-BHC	1.8 ± .70	JP U
319-85-7	beta-BHC	1.80 ± .001	JP U
319-86-8	delta-BHC	1.8	U
58-89-9	gamma-BHC (Lindane)	1.8	U
76-44-8	Heptachlor	1.8 ± .36	JP U
309-00-2	Aldrin	1.8	U
1024-57-3	Heptachlor epoxide	1.8 ± .99	JP U
959-98-8	Endosulfan I	1.8	U
60-57-1	Dieldrin	1.2	JP Q
72-55-9	4, 4'-DDE	31.	
72-20-8	Endrin	3.4 ± .57	JP U
33213-65-9	Endosulfan II	3.4 ± .30	JP U
72-54-8	4, 4'-DDD	4.9	
1031-07-8	Endosulfan sulfate	3.4	U
50-29-3	4, 4'-DDT	24.	
72-43-5	Methoxychlor	18.	U
53494-70-5	Endrin ketone	2.2	JP Q
7421-93-4	Endrin aldehyde	3.4 ± .6	JP U
5103-71-9	alpha-Chlordane	0.44	JP Q
5103-74-2	gamma-Chlordane	1.8	U
8001-35-2	Toxaphene	180	U

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1G - FORM I PEST
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J94T9

Lab Name: <u>DataChem Laboratories, Inc.</u>	Contract: <u>EP-W-05-026</u>			
Lab Code: <u>DATAC</u>	Case No.: <u>37584</u>	Mod. Ref No.: _____	SDG No.: <u>J94S6</u>	
Matrix: <u>(SOIL/SED/WATER) SOIL</u>	Lab Sample ID: <u>8215001016</u>			
Sample wt/vol: <u>30.0</u> (g/mL) <u>g</u>	Lab File ID: <u>21080809A041, 21080809B041</u>			
% Moisture: <u>11.</u>	Decanted: (Y/N) <u>N</u>	Date Received: <u>08/02/2008</u>		
Extraction: (Type) <u>SONC</u>	Date Extracted: <u>08/04/2008</u>			
Concentrated Extract Volume: <u>5000</u> (uL)	Date Analyzed: <u>08/10/2008</u>			
Injection Volume: <u>2.0</u> (uL) GPC Factor: <u>2.0</u>	Dilution Factor: <u>1.0</u>			
GPC Cleanup: (Y/N) <u>Y</u> pH: <u>7.2</u>	Sulfur Cleanup: (Y/N) <u>N</u>			

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/kg</u>	Q
319-84-6	alpha-BHC	1.9	U
319-85-7	beta-BHC	1.9 ± .35	JP U
319-86-8	delta-BHC	1.9	U
58-89-9	gamma-BHC (Lindane)	1.9	U
76-44-8	Heptachlor	1.9 ± .66	JP U
309-00-2	Aldrin	1.9	U
1024-57-3	Heptachlor epoxide	1.5	J Q
959-98-8	Endosulfan I	1.9	U
60-57-1	Dieldrin	2.3	J Q
72-55-9	4, 4'-DDE	26.	
72-20-8	Endrin	3.7 ± .46	JP U
33213-65-9	Endosulfan II	3.7 ± .67	JP U
72-54-8	4, 4'-DDD	4.7	P
1031-07-8	Endosulfan sulfate	3.7	U
50-29-3	4, 4'-DDT	54.	
72-43-5	Methoxychlor	5.7	JP Q
53494-70-5	Endrin ketone	3.7	U
7421-93-4	Endrin aldehyde	3.7 ± .6	JP U
5103-71-9	alpha-Chlordane	1.9 ± .18	JP U
5103-74-2	gamma-Chlordane	1.9	U
8001-35-2	Toxaphene	190	U

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1G - FORM I PEST
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J94W0

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026
 Lab Code: DATAC Case No.: 37584 Mod. Ref No.: SDG No.: J94S6
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 8215001017
 Sample wt/vol: 30.0 (g/mL) g Lab File ID: 21080809A042, 21080809B042
 % Moisture: 18. Decanted: (Y/N) N Date Received: 08/02/2008
 Extraction: (Type) SONC Date Extracted: 08/04/2008
 Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/10/2008
 Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0
 GPC Cleanup: (Y/N) Y pH: 7.4 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/kg</u>	Q
319-84-6	alpha-BHC	2.1	U
319-85-7	beta-BHC	2.1	U
319-86-8	delta-BHC	2.1	U
58-89-9	gamma-BHC (Lindane)	2.1	U
76-44-8	Heptachlor	2.1 0.17	JP U
309-00-2	Aldrin	2.1	U
1024-57-3	Heptachlor epoxide	0.47	JP Q
959-98-8	Endosulfan I	2.1	U
60-57-1	Dieldrin	4.0	U
72-55-9	4,4'-DDE	8.8	
72-20-8	Endrin	4.0 0.14	JP U
33213-65-9	Endosulfan II	4.0 0.17	JP U
72-54-8	4,4'-DDD	4.0 0.35	JP U
1031-07-8	Endosulfan sulfate	4.0	U
50-29-3	4,4'-DDT	8.5	
72-43-5	Methoxychlor	2.1 0.32	JP U
53494-70-5	Endrin ketone	0.34	JP Q
7421-93-4	Endrin aldehyde	4.0 0.66	JP U
5103-71-9	alpha-Chlordane	2.1 0.10	JP U
5103-74-2	gamma-Chlordane	2.1	U
8001-35-2	Toxaphene	210	U

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1G - FORM I PEST
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J94W1

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026
 Lab Code: DATA Case No.: 37584 Mod. Ref No.: _____ SDG No.: J94S6
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 8215001018
 Sample wt/vol: 30.0 (g/mL) g Lab File ID: 21080809A043, 21080809B043
 % Moisture: 8.9 Decanted: (Y/N) N Date Received: 08/02/2008
 Extraction: (Type) SONC Date Extracted: 08/04/2008
 Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/10/2008
 Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0
 GPC Cleanup: (Y/N) Y pH: 7.4 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
319-84-6	alpha-BHC	1.9	U
319-85-7	beta-BHC	1.9	U
319-86-8	delta-BHC	1.9	U
58-89-9	gamma-BHC (Lindane)	1.9	U
76-44-8	Heptachlor	1.9	U
309-00-2	Aldrin	1.9	U
1024-57-3	Heptachlor epoxide	1.9	U
959-98-8	Endosulfan I	1.9	U
60-57-1	Dieldrin	3.6	U
72-55-9	4,4'-DDE	2.2	J
72-20-8	Endrin	3.6	U
33213-65-9	Endosulfan II	3.6	U
72-54-8	4,4'-DDD	3.6 0.090	J P U
1031-07-8	Endosulfan sulfate	3.6	U
50-29-3	4,4'-DDT	2.1	J P Q
72-43-5	Methoxychlor	190.16	J P U
53494-70-5	Endrin ketone	3.6	U
7421-93-4	Endrin aldehyde	3.6	U
5103-71-9	alpha-Chlordane	1.9	U
5103-74-2	gamma-Chlordane	1.9	U
8001-35-2	Toxaphene	190	U

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1G - FORM I PEST
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J94W2

Lab Name: DataChem Laboratories, Inc.

Contract: EP-W-05-026

Lab Code: DATA Case No.: 37584 Mod. Ref No.: _____ SDG No.: J94S6

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: 8215001019

Sample wt/vol: 30.0 (g/mL) g

Lab File ID: 21080809A044, 21080809B044

% Moisture: 13. Decanted: (Y/N) N

Date Received: 08/02/2008

Extraction: (Type) SONC

Date Extracted: 08/04/2008

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/10/2008

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.4 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/kg</u>	Q
319-84-6	alpha-BHC	1.9	U
319-85-7	beta-BHC	1.9 <u>0.31</u>	JP U
319-86-8	delta-BHC	1.9 <u>0.11</u>	JP U
58-89-9	gamma-BHC (Lindane)	1.9	U
76-44-8	Heptachlor	1.9 <u>0.055</u>	JP U
309-00-2	Aldrin	1.9	U
1024-57-3	Heptachlor epoxide	0.44	J Q
959-98-8	Endosulfan I	1.9	U
60-57-1	Dieldrin	3.8	U
72-55-9	4, 4'-DDE	13.	
72-20-8	Endrin	3.8 <u>0.48</u>	JP U
33213-65-9	Endosulfan II	3.8 <u>0.28</u>	JP U
72-54-8	4, 4'-DDD	3.8 <u>0.37</u>	JP U
1031-07-8	Endosulfan sulfate	3.8	U
50-29-3	4, 4'-DDT	15.	
72-43-5	Methoxychlor	2.2	J Q
53494-70-5	Endrin ketone	0.83	J
7421-93-4	Endrin aldehyde	3.8 <u>0.59</u>	JP U
5103-71-9	alpha-Chlordane	1.9	U
5103-74-2	gamma-Chlordane	1.9	U
8001-35-2	Toxaphene	190	U

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1384

1G - FORM I PEST
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J94W3

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026
 Lab Code: DATAC Case No.: 37584 Mod. Ref No.: _____ SDG No.: J94S6
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 8215001020
 Sample wt/vol: 30.0 (g/mL) g Lab File ID: 21080809A045, 21080809B045
 % Moisture: 4.8 Decanted: (Y/N) N Date Received: 08/02/2008
 Extraction: (Type) SONC Date Extracted: 08/04/2008
 Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/10/2008
 Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0
 GPC Cleanup: (Y/N) Y pH: 7.3 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
319-84-6	alpha-BHC	1.8	U
319-85-7	beta-BHC	0.18	JPQ
319-86-8	delta-BHC	1.8	U
58-89-9	gamma-BHC (Lindane)	1.8	U
76-44-8	Heptachlor	0.11	JPQ
309-00-2	Aldrin	1.8	U
1024-57-3	Heptachlor epoxide	0.58	JQ
959-98-8	Endosulfan I	1.8	U
60-57-1	Dieldrin	3.5	U
72-55-9	4, 4'-DDE	15.	
72-20-8	Endrin	3.5 0.22	JP U
33213-65-9	Endosulfan II	3.5 0.30	JP U
72-54-8	4, 4'-DDD	3.5 0.57	JP U
1031-07-8	Endosulfan sulfate	3.5	U
50-29-3	4, 4'-DDT	21.	
72-43-5	Methoxychlor	18 0.63	JP U
53494-70-5	Endrin ketone	0.86	JPQ
7421-93-4	Endrin aldehyde	3.5 0.51	JP U
5103-71-9	alpha-Chlordane	1.8 0.076	JP U
5103-74-2	gamma-Chlordane	1.8	U
8001-35-2	Toxaphene	180	U

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1G - FORM I PEST
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J94W4

Lab Name: DataChem Laboratories, Inc.

Contract: EP-W-05-026

Lab Code: DATAC Case No.: 37584 Mod. Ref No.: _____ SDG No.: J94S6

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: 8215001021

Sample wt/vol: 30.0 (g/mL) g

Lab File ID: 21080809A046, 21080809B046

% Moisture: 36. Decanted: (Y/N) N

Date Received: 08/02/2008

Extraction: (Type) SONC

Date Extracted: 08/04/2008

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 08/10/2008

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.7 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
319-84-6	alpha-BHC	2.7	U
319-85-7	beta-BHC	2.7	U
319-86-8	delta-BHC	2.7	U
58-89-9	gamma-BHC (Lindane)	2.7	U
76-44-8	Heptachlor	2.7	U
309-00-2	Aldrin	2.7	U
1024-57-3	Heptachlor epoxide	2.7	U
959-98-8	Endosulfan I	2.7	U
60-57-1	Dieldrin	5.2	U
72-55-9	4,4'-DDE	5,20.26	JP U
72-20-8	Endrin	5.2	U
33213-65-9	Endosulfan II	5.2	U
72-54-8	4,4'-DDD	5.2	U
1031-07-8	Endosulfan sulfate	5.2	U
50-29-3	4,4'-DDT	5.2	U
72-43-5	Methoxychlor	27.	U
53494-70-5	Endrin ketone	5.2	U
7421-93-4	Endrin aldehyde	5.2	U
5103-71-9	alpha-Chlordane	2.7	U
5103-74-2	gamma-Chlordane	2.7 0.057	JP U
8001-35-2	Toxaphene	270	U

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1394

1G - FORM I PEST
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J94W5

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026
 Lab Code: DATAC Case No.: 37584 Mod. Ref No.: SDG No.: J94S6
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 8215001022
 Sample wt/vol: 30.0 (g/mL) g Lab File ID: 21080809A047, 21080809B047
 % Moisture: 14. Decanted: (Y/N) N Date Received: 08/02/2008
 Extraction: (Type) SONC Date Extracted: 08/04/2008
 Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/10/2008
 Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0
 GPC Cleanup: (Y/N) Y pH: 8.7 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
319-84-6	alpha-BHC	2.0	U
319-85-7	beta-BHC	2.0	U
319-86-8	delta-BHC	2.0	U
58-89-9	gamma-BHC (Lindane)	2.0	U
76-44-8	Heptachlor	0.12	JPQ
309-00-2	Aldrin	2.0	U
1024-57-3	Heptachlor epoxide	2.0	U
959-98-8	Endosulfan I	2.0	U
60-57-1	Dieldrin	3.8 0.16	JP U
72-55-9	4,4'-DDE	0.60	JPQ
72-20-8	Endrin	3.8 0.10	JP U
33213-65-9	Endosulfan II	3.8 0.14	JP U
72-54-8	4,4'-DDD	3.8	U
1031-07-8	Endosulfan sulfate	3.8	U
50-29-3	4,4'-DDT	2.1	JPQ
72-43-5	Methoxychlor	20 0.84	JP U
53494-70-5	Endrin ketone	3.8 0.10	JP U
7421-93-4	Endrin aldehyde	3.8 0.26	JP U
5103-71-9	alpha-Chlordane	2.0	U
5103-74-2	gamma-Chlordane	2.0	U
8001-35-2	Toxaphene	200	U

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1H - FORM I ARO
AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J94S6

Lab Name: DataChem Laboratories, Inc.

Contract: EP-W-05-026

Lab Code: DATAAC Case No.: 37584 Mod. Ref No.: _____ SDG No.: J94S6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 8215001001

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 19080611A032, 19080811B032

% Moisture: 16. Decanted: (Y/N) N Date Received: 08/02/2008

Extraction: (Type) SONC Date Extracted: 08/04/2008

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/11/2008

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.2 Sulfur Cleanup: (Y/N) N

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor-1016	39.	U
11104-28-2	Aroclor-1221	39.	U
11141-16-5	Aroclor-1232	39.	U
53469-21-9	Aroclor-1242	39.	U
12672-29-6	Aroclor-1248	39.	U
11097-69-1	Aroclor-1254	39.	U
11096-82-5	Aroclor-1260	20.	J Q
37324-23-5	Aroclor-1262	39.	U
11100-14-4	Aroclor-1268	39.	U


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1H - FORM I ARO
AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J94S7

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026
 Lab Code: DATAAC Case No.: 37584 Mod. Ref No.: _____ SDG No.: J94S6
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 8215001002
 Sample wt/vol: 30.0 (g/mL) g Lab File ID: 19080811A033, 19080811B033
 % Moisture: 26. Decanted: (Y/N) N Date Received: 08/02/2008
 Extraction: (Type) SONC Date Extracted: 08/04/2008
 Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/11/2008
 Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0
 GPC Cleanup: (Y/N) Y pH: 8.7 Sulfur Cleanup: (Y/N) N
 Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg)	Q
12674-11-2	Aroclor-1016	45.	U
11104-28-2	Aroclor-1221	45.	U
11141-16-5	Aroclor-1232	45.	U
53469-21-9	Aroclor-1242	45.	U
12672-29-6	Aroclor-1248	45.	U
11097-69-1	Aroclor-1254	45.	U
11096-82-5	Aroclor-1260	45.	U
37324-23-5	Aroclor-1262	45.	U
11100-14-4	Aroclor-1268	45.	U

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1597

1H - FORM I ARO
AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J94S8

Lab Name: DataChem Laboratories, Inc.

Contract: EP-W-05-026

Lab Code: DATAC Case No.: 37584 Mod. Ref No.: SDG No.: J94S6

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: 8215001003

Sample wt/vol: 30.0 (g/mL) g

Lab File ID: 19080811A034, 19080811B034

% Moisture: 17. Decanted: (Y/N) N

Date Received: 08/02/2008

Extraction: (Type) SONC

Date Extracted: 08/04/2008

Concentrated Extract Volume: 5000 (uL)

Date Analyzed: 08/11/2008

Injection Volume: 2.0 (uL) GPC Factor: 2.0

Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.7

Sulfur Cleanup: (Y/N) N

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor-1016	40.	U
11104-28-2	Aroclor-1221	40.	U
11141-16-5	Aroclor-1232	40.	U
53469-21-9	Aroclor-1242	40.	U
12672-29-6	Aroclor-1248	40.	U
11097-69-1	Aroclor-1254	40.	U
11096-82-5	Aroclor-1260	40.	U
37324-23-5	Aroclor-1262	40.	U
11100-14-4	Aroclor-1268	40.	U

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1602

1H - FORM I ARO
AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J94S9

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026
 Lab Code: DATAC Case No.: 37584 Mod. Ref No.: _____ SDG No.: J94S6
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 8215001004
 Sample wt/vol: 30.0 (g/mL) g Lab File ID: 19080811A035, 19080811B035
 % Moisture: 21. Decanted: (Y/N) N Date Received: 08/02/2008
 Extraction: (Type) SONC Date Extracted: 08/04/2008
 Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/11/2008
 Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0
 GPC Cleanup: (Y/N) Y pH: 8.4 Sulfur Cleanup: (Y/N) N
 Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg)	ug/kg	Q
12674-11-2	Aroclor-1016		42.	U
11104-28-2	Aroclor-1221		42.	U
11141-16-5	Aroclor-1232		42.	U
53469-21-9	Aroclor-1242		42.	U
12672-29-6	Aroclor-1248		42.	U
11097-69-1	Aroclor-1254		42.	U
11096-82-5	Aroclor-1260		42.	U
37324-23-5	Aroclor-1262		42.	U
11100-14-4	Aroclor-1268		42.	U

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1607

1H - FORM I ARO
AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J94TO

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026
 Lab Code: DATAC Case No.: 37584 Mod. Ref No.: SDG No.: J94S6
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 8215001005
 Sample wt/vol: 30.0 (g/mL) g Lab File ID: 19080811A036, 19080811B036
 % Moisture: 7.4 Decanted: (Y/N) N Date Received: 08/02/2008
 Extraction: (Type) SONC Date Extracted: 08/04/2008
 Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/11/2008
 Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0
 GPC Cleanup: (Y/N) Y pH: 7.5 Sulfur Cleanup: (Y/N) N
 Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor-1016	36.	U
11104-28-2	Aroclor-1221	36.	U
11141-16-5	Aroclor-1232	36.	U
53469-21-9	Aroclor-1242	36.	U
12672-29-6	Aroclor-1248	36.	U
11097-69-1	Aroclor-1254	36.	U
11096-82-5	Aroclor-1260	36.	U
37324-23-5	Aroclor-1262	36.	U
11100-14-4	Aroclor-1268	36.	U

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1612

1H - FORM I ARO
AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J94T1

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026
 Lab Code: DATAc Case No.: 37584 Mod. Ref No.: SDG No.: J94S6
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 8215001006
 Sample wt/vol: 30.0 (g/mL) g Lab File ID: 19080811A037, 19080811B037
 % Moisture: 9.6 Decanted: (Y/N) N Date Received: 08/02/2008
 Extraction: (Type) SONC Date Extracted: 08/04/2008
 Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/11/2008
 Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0
 GPC Cleanup: (Y/N) Y pH: 8.6 Sulfur Cleanup: (Y/N) N
 Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor-1016	36.	U
11104-28-2	Aroclor-1221	36.	U
11141-16-5	Aroclor-1232	36.	U
53469-21-9	Aroclor-1242	36.	U
12672-29-6	Aroclor-1248	36.	U
11097-69-1	Aroclor-1254	36.	U
11096-82-5	Aroclor-1260	36.	U
37324-23-5	Aroclor-1262	36.	U
11100-14-4	Aroclor-1268	36.	U

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10/11/08 1617

1H - FORM I ARO
AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J94T2

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026
 Lab Code: DATAC Case No.: 37584 Mod. Ref No.: SDG No.: J94S6
 Matrix: (SOIL/SED/WATER) SCIL Lab Sample ID: 8215001007
 Sample wt/vol: 30.0 (g/mL) g Lab File ID: 19080811A038, 19080811B038
 % Moisture: 3.7 Decanted: (Y/N) N Date Received: 08/02/2008
 Extraction: (Type) SONC Date Extracted: 08/04/2008
 Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/11/2008
 Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0
 GPC Cleanup: (Y/N) Y pH: 7.2 Sulfur Cleanup: (Y/N) N
 Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor-1016	34.	U
11104-28-2	Aroclor-1221	34.	U
11141-16-5	Aroclor-1232	34.	U
53469-21-9	Aroclor-1242	34.	U
12672-29-6	Aroclor-1248	34.	U
11097-69-1	Aroclor-1254	89.	
11096-82-5	Aroclor-1260	34.	U
37324-23-5	Aroclor-1262	34.	U
11100-14-4	Aroclor-1268	34.	U

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1H - FORM I ARO
AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J94T3

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026
 Lab Code: DATA C Case No.: 37584 Mod. Ref No.: SDG No.: J94S6
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 8215001008
 Sample wt/vol: 30.0 (g/mL) g Lab File ID: 19080811A039, 19080811B039
 % Moisture: 9.2 Decanted: (Y/N) N Date Received: 08/02/2008
 Extraction: (Type) SONC Date Extracted: 08/04/2008
 Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/11/2008
 Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0
 GPC Cleanup: (Y/N) Y pH: 8.8 Sulfur Cleanup: (Y/N) N
 Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg)	ug/kg	Q
12674-11-2	Aroclor-1016		36.	U
11104-28-2	Aroclor-1221		36.	U
11141-16-5	Aroclor-1232		36.	U
53469-21-9	Aroclor-1242		36.	U
12672-29-6	Aroclor-1248		36.	U
11097-69-1	Aroclor-1254		36.	U
11096-82-5	Aroclor-1260		36.	U
37324-23-5	Aroclor-1262		36.	U
11100-14-4	Aroclor-1268		36.	U

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1H - FORM I ARO
AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J94T4

Lab Name: DataChem Laboratories, Inc.

Contract: EP-W-05-026

Lab Code: DATA~~C~~ Case No.: 37584 Mod. Ref. No.: SDG No.: J94S6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 8215001011

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 19080811A042, 19080811B042

% Moisture: 2.9 Decanted: (Y/N) N Date Received: 08/02/2008

Extraction: (Type) SONC Date Extracted: 08/04/2008

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/12/2008

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor-1016	34.	U
11104-28-2	Aroclor-1221	34.	U
11141-16-5	Aroclor-1232	34.	U
53469-21-9	Aroclor-1242	34.	U
12672-29-6	Aroclor-1248	34.	U
11097-69-1	Aroclor-1254	34.	U
11096-82-5	Aroclor-1260	34.	U
37324-23-5	Aroclor-1262	34.	U
11100-14-4	Aroclor-1268	34.	U

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10/11/08 1628

1H - FORM I ARO
AROCLOL ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J94T5

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026
 Lab Code: DATAC Case No.: 37584 Mod. Ref No.: SDG No.: J94S6
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 8215001012
 Sample wt/vol: 30.0 (g/mL) g Lab File ID: 19080811A043, 19080811B043
 % Moisture: 3.9 Decanted: (Y/N) N Date Received: 08/02/2008
 Extraction: (Type) SONC Date Extracted: 08/04/2008
 Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/12/2008
 Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0
 GPC Cleanup: (Y/N) Y pH: 7.3 Sulfur Cleanup: (Y/N) N
 Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor-1016	34.	U
11104-28-2	Aroclor-1221	34.	U
11141-16-5	Aroclor-1232	34.	U
53469-21-9	Aroclor-1242	34.	U
12672-29-6	Aroclor-1248	34.	U
11097-69-1	Aroclor-1254	23.	JKR
11096-82-5	Aroclor-1260	34.	U
37324-23-5	Aroclor-1262	34.	U
11100-14-4	Aroclor-1268	34.	U

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1633

1H - FORM I ARO
AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J94T6

Lab Name: DataChem Laboratories, Inc.

Contract: EP-W-05-026

Lab Code: DATAC Case No.: 37584 Mod. Ref No.: SDG No.: J94S6

Matrix: (SOIL/SED/WATER) SOIL

Lab Sample ID: 8215001013

Sample wt/vol: 30.0 (g/mL) g

Lab File ID: 19080812A023, 19080812B023

% Moisture: 11. Decanted: (Y/N) N

Date Received: 08/02/2008

Extraction: (Type) SONC

Date Extracted: 08/04/2008

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/12/2008

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.3 Sulfur Cleanup: (Y/N) N

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor-1016	37.	U
11104-28-2	Aroclor-1221	37.	U
11141-16-5	Aroclor-1232	37.	U
53469-21-9	Aroclor-1242	37.	U
12672-29-6	Aroclor-1248	37.	U
11097-69-1	Aroclor-1254	37.	U
11096-82-5	Aroclor-1260	37.	U
37324-23-5	Aroclor-1262	37.	U
11100-14-4	Aroclor-1268	37.	U

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1638

1H - FORM I ARO
AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J94T7

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026
 Lab Code: DATAC Case No.: 37584 Mod. Ref No.: SDG No.: J94S6
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 8215001014
 Sample wt/vol: 30.0 (g/mL) g Lab File ID: 19080812A024, 19080812B024
 % Moisture: 17 Decanted: (Y/N) N Date Received: 08/02/2008
 Extraction: (Type) SONC Date Extracted: 08/04/2008
 Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/12/2008
 Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0
 GPC Cleanup: (Y/N) Y pH: 8.0 Sulfur Cleanup: (Y/N) N
 Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/kg</u>	Q
12674-11-2	Aroclor-1016	40.	U
11104-28-2	Aroclor-1221	40.	U
11141-16-5	Aroclor-1232	40.	U
53469-21-9	Aroclor-1242	40.	U
12672-29-6	Aroclor-1248	40.	U
11097-69-1	Aroclor-1254	40.	U
11096-82-5	Aroclor-1260	40.	U
37324-23-5	Aroclor-1262	40.	U
11100-14-4	Aroclor-1268	40.	U

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10/1/08 1643

1H - FORM I ARO
AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J94T8

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026
 Lab Code: DATAC Case No.: 37584 Mod. Ref No.: SDG No.: J94S6
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 8215001015
 Sample wt/vol: 30.0 (g/mL) g Lab File ID: 19080812A025, 19080812B025
 % Moisture: 4.2 Decanted: (Y/N) N Date Received: 08/02/2008
 Extraction: (Type) SONC Date Extracted: 08/04/2008
 Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/13/2008
 Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0
 GPC Cleanup: (Y/N) Y pH: 7.3 Sulfur Cleanup: (Y/N) N
 Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor-1016	34.	U
11104-28-2	Aroclor-1221	34.	U
11141-16-5	Aroclor-1232	34.	U
53469-21-9	Aroclor-1242	34.	U
12672-29-6	Aroclor-1248	34.	U
11097-69-1	Aroclor-1254	140	✓
11096-82-5	Aroclor-1260	34.	U
37324-23-5	Aroclor-1262	34.	U
11100-14-4	Aroclor-1268	34.	U

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1648

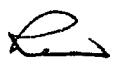
1H - FORM I ARO
AROCLOL ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J94T9

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026
 Lab Code: DATAAC Case No.: 37584 Mod. Ref No.: SDG No.: J94S6
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 8215001016
 Sample wt/vol: 30.0 (g/mL) g Lab File ID: 19080812A026, 19080812B026
 % Moisture: 11. Decanted: (Y/N) N Date Received: 08/02/2008
 Extraction: (Type) SONC Date Extracted: 08/04/2008
 Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/13/2008
 Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0
 GPC Cleanup: (Y/N) Y pH: 7.2 Sulfur Cleanup: (Y/N) N
 Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor-1016	37.	U
11104-28-2	Aroclor-1221	37.	U
11141-16-5	Aroclor-1232	37.	U
53469-21-9	Aroclor-1242	37.	U
12672-29-6	Aroclor-1248	37.	U
11097-69-1	Aroclor-1254	120	Z
11096-82-5	Aroclor-1260	37.	U
37324-23-5	Aroclor-1262	37.	U
11100-14-4	Aroclor-1268	37.	U


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SOM01.2 (6/2007)

1H - FORM I ARO
AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J94W0

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026
 Lab Code: DATAC Case No.: 37584 Mod. Ref No.: SDG No.: J94S6
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 8215001017
 Sample wt/vol: 30.0 (g/mL) g Lab File ID: 19080812A027, 19080812B027
 % Moisture: 18. Decanted: (Y/N) N Date Received: 08/02/2008
 Extraction: (Type) SONC Date Extracted: 08/04/2008
 Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/13/2008
 Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0
 GPC Cleanup: (Y/N) Y pH: 7.4 Sulfur Cleanup: (Y/N) N
 Acid Cleanup: (Y/N) Y

CAS. NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor-1016	40.	U
11104-28-2	Aroclor-1221	40.	U
11141-16-5	Aroclor-1232	40.	U
53469-21-9	Aroclor-1242	40.	U
12672-29-6	Aroclor-1248	40.	U
11097-69-1	Aroclor-1254	64.	
11096-82-5	Aroclor-1260	40.	U
37324-23-5	Aroclor-1262	40.	U
11100-14-4	Aroclor-1268	40.	U

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1H - FORM I ARO
AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J94W1

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026
 Lab Code: DATA C Case No.: 37584 Mod. Ref No.: SDG No.: J94S6
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 8215001018
 Sample wt/vol: 30.0 (g/mL) g Lab File ID: 19080812AC28, 19080812B028
 % Moisture: 8.9 Decanted: (Y/N) N Date Received: 08/02/2008
 Extraction: (Type) SONC Date Extracted: 08/04/2008
 Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/13/2008
 Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0
 GPC Cleanup: (Y/N) Y pH: 7.4 Sulfur Cleanup: (Y/N) N
 Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/kg</u>	Q
12674-11-2	Aroclor-1016	36.	U
11104-28-2	Aroclor-1221	36.	U
11141-16-5	Aroclor-1232	36.	U
53469-21-9	Aroclor-1242	36.	U
12672-29-6	Aroclor-1248	36.	U
11097-69-1	Aroclor-1254	36.	U
11096-82-5	Aroclor-1260	36.	U
37324-23-5	Aroclor-1262	36.	U
11100-14-4	Aroclor-1268	36.	U

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1H - FORM I ARO
AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J94W2

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026
 Lab Code: DATAAC Case No.: 37584 Mod. Ref No.: SDG No.: J94S6
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 8215001019
 Sample wt/vol: 30.0 (g/mL) g Lab File ID: 19080812A029, 19080812B029
 % Moisture: 13. Decanted: (Y/N) N Date Received: 08/02/2008
 Extraction: (Type) SONC Date Extracted: 08/04/2008
 Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/13/2008
 Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0
 GPC Cleanup: (Y/N) Y pH: 7.4 Sulfur Cleanup: (Y/N) N
 Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg)	Q
12674-11-2	Aroclor-1016	38.	U
11104-28-2	Aroclor-1221	38.	U
11141-16-5	Aroclor-1232	38.	U
53469-21-9	Aroclor-1242	38.	U
12672-29-6	Aroclor-1248	38.	U
11097-69-1	Aroclor-1254	30.	JP
11096-82-5	Aroclor-1260	38.	U
37324-23-5	Aroclor-1262	38.	U
11100-14-4	Aroclor-1268	38.	U

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1668

1H - FORM I ARO
AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J94W3

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026
 Lab Code: DATAAC Case No.: 37584 Mod. Ref No.: SDG No.: J94S6
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 8215001020
 Sample wt/vol: 30.0 (g/mL) g Lab File ID: 19080812A030, 19080812B030
 % Moisture: 4.8 Decanted: (Y/N) N Date Received: 08/02/2008
 Extraction: (Type) SONC Date Extracted: 08/04/2008
 Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/13/2008
 Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0
 GPC Cleanup: (Y/N) Y Sulfur Cleanup: (Y/N) N
 Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor-1016	35.	U
11104-28-2	Aroclor-1221	35.	U
11141-16-5	Aroclor-1232	35.	U
53469-21-9	Aroclor-1242	35.	U
12672-29-6	Aroclor-1248	35.	U
11097-69-1	Aroclor-1254	24.	JFO
11096-82-5	Aroclor-1260	35.	U
37324-23-5	Aroclor-1262	35.	U
11100-14-4	Aroclor-1268	35.	U

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1H - FORM I ARO
AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J94W4

Lab Name: DataChem Laboratories, Inc.

Contract: EP-W-05-026

Lab Code: DATAAC Case No.: 37584 Mod. Ref No.: SDG No.: J94S6

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 8215001021

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 19080812A031, 19080812B031

% Moisture: 36. Decanted: (Y/N) N Date Received: 08/02/2008

Extraction: (Type) SONC Date Extracted: 08/04/2008

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/13/2008

Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.7 Sulfur Cleanup: (Y/N) N

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg)	Q
12674-11-2	Aroclor-1016	52.	U
11104-28-2	Aroclor-1221	52.	U
11141-16-5	Aroclor-1232	52.	U
53469-21-9	Aroclor-1242	52.	U
12672-29-6	Aroclor-1248	52.	U
11097-69-1	Aroclor-1254	52.	U
11096-82-5	Aroclor-1260	52.	U
37324-23-5	Aroclor-1262	52.	U
11100-14-4	Aroclor-1268	52.	U

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1H - FORM I ARO
AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J94W5

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026
 Lab Code: DATAAC Case No.: 37584 Mod. Ref No.: SDG No.: J94S6
 Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: 8215001022
 Sample wt/vol: 30.0 (g/mL) g Lab File ID: 19080812A032, 19080812B032
 % Moisture: 14. Decanted: (Y/N) N Date Received: 08/02/2008
 Extraction: (Type) SONC Date Extracted: 08/04/2008
 Concentrated Extract Volume: 5000 (uL) Date Analyzed: 08/13/2008
 Injection Volume: 2.0 (uL) GPC Factor: 2.0 Dilution Factor: 1.0
 GPC Cleanup: (Y/N) Y pH: 8.7 Sulfur Cleanup: (Y/N) N
 Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
12674-11-2	Aroclor-1016	38.	U
11104-28-2	Aroclor-1221	38.	U
11141-16-5	Aroclor-1232	38.	U
53469-21-9	Aroclor-1242	38.	U
12672-29-6	Aroclor-1248	38.	U
11097-69-1	Aroclor-1254	38.	U
11096-82-5	Aroclor-1260	38.	U
37324-23-5	Aroclor-1262	38.	U
11100-14-4	Aroclor-1268	38.	U

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10/11/08

1683



ecology and environment, inc.

International Specialists in the Environment

720 Third Avenue, Suite 1700, Seattle, WA 98104
Tel: (206) 624-9537, Fax: (206) 621-9832

MEMORANDUM

DATE: September 30, 2008

TO: Linda Costello, Project Manager, E & E, Seattle, Washington

FROM: Mark Woodke, START-3 Chemist, E & E, Seattle, Washington *MW*

SUBJ: **Inorganic Data Summary Check, McCall – Old City Dump Site,
McCall, Idaho**

REF: TDD: 07-03-0007

PAN: 002233.0192.01BR

The data summary check of 20 soil samples collected from the McCall – Old City Dump site in McCall, Idaho, has been completed. Target Analyte List (TAL) metals analyses (EPA CLP SOW ILM05.4) was performed by Bonner Analytical, Inc., Hattiesburg, Mississippi.

The samples were numbered:

MJ94S6	MJ94S7	MJ94S8	MJ94S9	MJ94T0
MJ94T1	MJ94T2	MJ94T3	MJ94T4	MJ94T5
MJ94T6	MJ94T7	MJ94T8	MJ94T9	MJ94W0
MJ94W1	MJ94W2	MJ94W3	MJ94W4	MJ94W5

No discrepancies were noted. The secondary reviewer added "Q" bias qualifiers to positive sample results less than the contract required quantitation limit and added the qualifiers listed in the cursory assessment memorandum.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 10

1200 Sixth Avenue, Suite 900
Seattle, Washington 98101

September 25, 2008

Reply To
Attn. Of: OEA-095

MEMORANDUM

SUBJECT: Data Transmittal for McCall Old City Dump TBA,
Case# 37584, SDG: MJ94S6, Inorganic Analysis

FROM: Donald Matheny, Chemist ~~D.M.~~
Environmental Services Unit, OEA

TO: Joanne LaBaw, Project Manager
Office of Environmental Cleanup (ECL-115)

CC: Renee Nordeen, Ecology & Environment

The following data are being transmitted for the above project. Twenty (20) soil samples were analyzed for total elements by Bonner Analytical, Hattiesburg, MS. Sample numbers for this sample set are:

MJ94S6	MJ94S7	MJ94S8	MJ94S9	MJ94T0	MJ94T1	MJ94T2
MJ94T3	MJ94T4	MJ94T5	MJ94T6	MJ94T7	MJ94T8	MJ94T9
MJ94W0	MJ94W1	MJ94W2	MJ94W3	MJ94W4	MJ94W5	

A cursory assessment of the data indicates the following:

Matrix spike recoveries were low for antimony (32%), arsenic (72%) and selenium (38%). Values for these elements should be estimates with a low bias.

The matrix spike recovery was high for mercury (150%). Values for mercury should be estimates with a high bias.

The duplicate results for copper, lead and nickel were below 35% RPD. The "*" qualifier for these elements can be ignored.

The duplicate results were high for aluminum (57%) and chromium (78%). Values for these elements should be estimates with no bias.

The serial dilution result for cadmium (11%) was within the allowable 1% deviance from the 10% acceptance criteria. The "E" qualifier for cadmium can be ignored.

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MJ94S6

Lab Name: Bonner Analytical Testing Compa Contract: EPW06055
 Lab Code: BONNER Case No.: 37584 NRAS No.: _____ SDG NO.: MJ94S6
 Matrix (soil/water): SOIL Lab Sample ID: 0808016-01
 Level (low/med): LOW Date Received: 08/02/2008
 % Solids: 80.1

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	16300	JK		P
7440-36-0	Antimony	1.8	JQ	N	P
7440-38-2	Arsenic	17.1	JL	N	P
7440-39-3	Barium	799			P
7440-41-7	Beryllium	0.52	JQ		P
7440-43-9	Cadmium	6.0		E	P
7440-70-2	Calcium	15200			P
7440-47-3	Chromium	37.0	JK		P
7440-48-4	Cobalt	13.5			P
7440-50-8	Copper	299			P
7439-89-6	Iron	73000		E	P
7439-92-1	Lead	1560			P
7439-95-4	Magnesium	1990			P
7439-96-5	Manganese	750			P
7439-97-6	Mercury	0.15	JH	N	CV
7440-02-0	Nickel	48.6			P
7440-09-7	Potassium	1950			P
7782-49-2	Selenium	4.4	UJK	N	P
7440-22-4	Silver	1.2	U		P
7440-23-5	Sodium	577	JQ		P
7440-28-0	Thallium	3.1	U		P
7440-62-2	Vanadium	22.6			P
7440-66-6	Zinc	1620			P

Color Before: BROWN Clarity Before: _____ Texture: MEDIUMColor After: BROWN Clarity After: _____ Artifacts: YESComments: ROCKS; GLASS

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MJ94S7

Lab Name: Bonner Analytical Testing Compa Contract: EPW06055
 Lab Code: BONNER Case No.: 37584 NRAS No.: _____ SDG No.: MJ94S6
 Matrix (soil/water): SOIL Lab Sample ID: 0808016-02
 Level (low/med): LOW Date Received: 08/02/2008
 % Solids: 77.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	8130	JK		P
7440-36-0	Antimony	7.8	UJK		P
7440-38-2	Arsenic	30.4	JL		P
7440-39-3	Barium	444			P
7440-41-7	Beryllium	0.22	JQ		P
7440-43-9	Cadmium	10.0		E	P
7440-70-2	Calcium	25000			P
7440-47-3	Chromium	100	JK		P
7440-48-4	Cobalt	20.3			P
7440-50-8	Copper	305			P
7439-89-6	Iron	227000		D	P
7439-92-1	Lead	1600			P
7439-95-4	Magnesium	1770			P
7439-96-5	Manganese	1250			P
7439-97-6	Mercury	4.4	JH	MD	CV
7440-02-0	Nickel	79.7			P
7440-09-7	Potassium	1790			P
7782-49-2	Selenium	4.5	UJK	NJW	P
7440-22-4	Silver	1.7			P
7440-23-5	Sodium	476	JQ		P
7440-28-0	Thallium	2.3	JQ		P
7440-62-2	Vanadium	22.5			P
7440-66-6	Zinc	3530			P

Color Before: BROWN Clarity Before: _____ Texture: MEDIUMColor After: BROWN Clarity After: _____ Artifacts: YESComments: METAL

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MJ94S8

Lab Name: Bonner Analytical Testing CompaContract: EPW06055Lab Code: BONNER Case No.: 37584NRAS No.: _____ SDG NO.: MJ94S6Matrix (soil/water): SOILLab Sample ID: 0808016-03Level (low/med): LOWDate Received: 08/02/2008% Solids: 80.7Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	14600	JK	*	P
7440-36-0	Antimony	2.1	JL	N	P
7440-38-2	Arsenic	3.0	JL	N	P
7440-39-3	Barium	170			P
7440-41-7	Beryllium	0.71			P
7440-43-9	Cadmium	0.63		E	P
7440-70-2	Calcium	5190			P
7440-47-3	Chromium	7.6	JK	*	P
7440-48-4	Cobalt	5.4	JG		P
7440-50-8	Copper	502			P
7439-89-6	Iron	15400			P
7439-92-1	Lead	234		*	P
7439-95-4	Magnesium	2050			P
7439-96-5	Manganese	331			P
7439-97-6	Mercury	0.12	U	N	CV
7440-02-0	Nickel	10.1		*	P
7440-09-7	Potassium	1680			P
7782-49-2	Selenium	4.3	U	N	P
7440-22-4	Silver	1.2	U		P
7440-23-5	Sodium	276	JG		P
7440-28-0	Thallium	3.1	U		P
7440-62-2	Vanadium	26.3			P
7440-66-6	Zinc	255			P

Color Before: BROWN Clarity Before: _____ Texture: MEDIUMColor After: BROWN Clarity After: _____ Artifacts: _____Comments: _____

IA-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MJ94S9

Lab Name: Bonner Analytical Testing Compa Contract: EPW06055
 Lab Code: BONNER Case No.: 37584 NRAS No.: _____ SDG NO.: MJ94S6
 Matrix (soil/water): SOIL Lab Sample ID: 0808016-04
 Level (low/med): LOW Date Received: 08/02/2008
 % Solids: 78.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	19900	JK	*	P
7440-36-0	Antimony	0.86	JL	N	P
7440-38-2	Arsenic	4.0	JL	N	P
7440-39-3	Barium	403			P
7440-41-7	Beryllium	1.1			P
7440-43-9	Cadmium	2.2		E	P
7440-70-2	Calcium	5940			P
7440-47-3	Chromium	12.6	JK	*	P
7440-48-4	Cobalt	7.9			P
7440-50-8	Copper	73.0		*	P
7439-89-6	Iron	24000			P
7439-92-1	Lead	254		*	P
7439-95-4	Magnesium	2390			P
7439-96-5	Manganese	724			P
7439-97-6	Mercury	0.18	JK	N	CV
7440-02-0	Nickel	10.4		*	P
7440-09-7	Potassium	2060			P
7782-49-2	Selenium	4.4	UV	NBV	P
7440-22-4	Silver	1.3	U		P
7440-23-5	Sodium	382	JQ		P
7440-28-0	Thallium	3.2	U		P
7440-62-2	Vanadium	41.7			P
7440-66-6	Zinc	555			P

Color Before: BROWN Clarity Before: _____ Texture: MEDIUMColor After: BROWN Clarity After: _____ Artifacts: YESComments: METAL; GLASS; ROCKS

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MJ94T0

Lab Name: Bonner Analytical Testing Compa Contract: EPW06055
 Lab Code: BONNER Case No.: 37584 NRAS No.: _____ SDG NO.: MJ94S6
 Matrix (soil/water): SOIL Lab Sample ID: 0808016-05
 Level (low/med): LOW Date Received: 08/02/2008
 % Solids: 88.3

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	12000	JK	N	P
7440-36-0	Antimony	2.5	JQ	N	P
7440-38-2	Arsenic	13.4	JL	N	P
7440-39-3	Barium	336			P
7440-41-7	Beryllium	0.69			P
7440-43-9	Cadmium	2.6		E	P
7440-70-2	Calcium	29100			P
7440-47-3	Chromium	15.8	JK	N	P
7440-48-4	Cobalt	5.8			P
7440-50-8	Copper	108			P
7439-89-6	Iron	26600			P
7439-92-1	Lead	323		*	P
7439-95-4	Magnesium	4090			P
7439-96-5	Manganese	498			P
7439-97-6	Mercury	0.23	TH	N	CV
7440-02-0	Nickel	22.6			P
7440-09-7	Potassium	1680			P
7782-49-2	Selenium	4.0	UJK	N	P
7440-22-4	Silver	1.1	U		P
7440-23-5	Sodium	405	JQ		P
7440-28-0	Thallium	2.8	U		P
7440-62-2	Vanadium	24.1			P
7440-66-6	Zinc	847			P

Color Before: BROWN Clarity Before: _____ Texture: MEDIUM
 Color After: BROWN Clarity After: _____ Artifacts: YES

Comments: PLANT MATTER; ROCKS

IA-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MJ94T1

Lab Name: Bonner Analytical Testing Compa Contract: EPW06055
 Lab Code: BONNER Case No.: 37584 NRAS No.: _____ SDG NO.: MJ94S6
 Matrix (soil/water): SOIL Lab Sample ID: 0808016-06
 Level (low/med): LOW Date Received: 08/02/2008
 % Solids: 92.1

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	9190	JK		P
7440-36-0	Antimony	0.87	JQ	N	P
7440-38-2	Arsenic	1.5	JL	N	P
7440-39-3	Barium	85.6			P
7440-41-7	Beryllium	0.68			P
7440-43-9	Cadmium	0.54	U	N	P
7440-70-2	Calcium	1720			P
7440-47-3	Chromium	3.8	JK		P
7440-48-4	Cobalt	4.3	JQ		P
7440-50-8	Copper	9.7			P
7439-89-6	Iron	12500			P
7439-92-1	Lead	11.7			P
7439-95-4	Magnesium	1450			P
7439-96-5	Manganese	220			P
7439-97-6	Mercury	0.11	U	N	CV
7440-02-0	Nickel	3.9	JQ		P
7440-09-7	Potassium	1090			P
7782-49-2	Selenium	3.8	UJK	NMW	P
7440-22-4	Silver	1.1	U		P
7440-23-5	Sodium	154	JQ		P
7440-28-0	Thallium	2.7	U		P
7440-62-2	Vanadium	30.6			P
7440-66-6	Zinc	30.5			P

Color Before: BROWN Clarity Before: _____ Texture: MEDIUM
 Color After: BROWN Clarity After: _____ Artifacts: _____

Comments: _____

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MJ94T2

Lab Name: Bonner Analytical Testing Compa Contract: EPW06055
 Lab Code: BONNER Case No.: 37584 NRAS No.: _____ SDG NO.: MJ94S6
 Matrix (soil/water): SOIL Lab Sample ID: 0808016-07
 Level (low/med): LOW Date Received: 08/02/2008
 % Solids: 95.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	O	M
7429-90-5	Aluminum	14400	JK		P
7440-36-0	Antimony	2.0	JQ		P
7440-38-2	Arsenic	2.9	JL		P
7440-39-3	Barium	214			P
7440-41-7	Beryllium	0.80			P
7440-43-9	Cadmium	0.77		E	P
7440-70-2	Calcium	2520			P
7440-47-3	Chromium	9.5	JK		P
7440-48-4	Cobalt	6.0			P
7440-50-8	Copper	52.6			P
7439-89-6	Iron	20700			P
7439-92-1	Lead	163			P
7439-95-4	Magnesium	1650			P
7439-96-5	Manganese	483			P
7439-97-6	Mercury	0.21	JH		CV
7440-02-0	Nickel	9.8			P
7440-09-7	Potassium	1500			P
7782-49-2	Selenium	3.7	UJK	NH ₄ W	P
7440-22-4	Silver	1.1	U		P
7440-23-5	Sodium	210	JQ		P
7440-28-0	Thallium	2.6	U		P
7440-62-2	Vanadium	34.9			P
7440-66-6	Zinc	294			P

Color Before: BROWN Clarity Before: _____ Texture: MEDIUM
 Color After: BROWN Clarity After: _____ Artifacts: YES

Comments: PLANT MATTER; ROCKS

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MJ94T3

Lab Name: Bonner Analytical Testing Compa Contract: EPW06055
 Lab Code: BONNER Case No.: 37584 NRAS No.: SDG NO.: MJ94S6
 Matrix (soil/water): SOIL Lab Sample ID: 0808016-08
 Level (low/med): LOW Date Received: 08/02/2008
 % Solids: 93.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	6210	JK		P
7440-36-0	Antimony	1.8	JQ	N	P
7440-38-2	Arsenic	1.2	JL	N	P
7440-39-3	Barium	64.0			P
7440-41-7	Beryllium	0.50	JQ		P
7440-43-9	Cadmium	0.53	U	E	P
7440-70-2	Calcium	1900			P
7440-47-3	Chromium	3.2	JK		P
7440-48-4	Cobalt	5.4			P
7440-50-8	Copper	10.9		N	P
7439-89-6	Iron	14000			P
7439-92-1	Lead	5.7			P
7439-95-4	Magnesium	1610			P
7439-96-5	Manganese	225			P
7439-97-6	Mercury	0.11	U	N	CV
7440-02-0	Nickel	3.2	JQ		P
7440-09-7	Potassium	961			P
7782-49-2	Selenium	3.7	UJK	N	P
7440-22-4	Silver	1.1	U		P
7440-23-5	Sodium	162	JQ		P
7440-28-0	Thallium	2.7	U		P
7440-62-2	Vanadium	23.6			P
7440-66-6	Zinc	19.8			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: BROWN Clarity After: Artifacts: YES

Comments: ROCKS

IA-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MJ94T4

Lab Name: Bonner Analytical Testing Compa Contract: EPW06055
 Lab Code: BONNER Case No.: 37584 NRAS No.: _____ SDG NO.: MJ94S6
 Matrix (soil/water): SOIL Lab Sample ID: 0808016-09
 Level (low/med): LOW Date Received: 08/02/2008
 % Solids: 95.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	18000	JK	*	P
7440-36-0	Antimony	1.1	JG	N	P
7440-38-2	Arsenic	3.3	JL	N	P
7440-39-3	Barium	230			P
7440-41-7	Beryllium	0.97			P
7440-43-9	Cadmium	0.65		E	P
7440-70-2	Calcium	2690			P
7440-47-3	Chromium	8.2	JK	*	P
7440-48-4	Cobalt	7.1			P
7440-50-8	Copper	42.5		*	P
7439-89-6	Iron	21100			P
7439-92-1	Lead	74.3			P
7439-95-4	Magnesium	1960			P
7439-96-5	Manganese	586			P
7439-97-6	Mercury	0.16	JH	N	CV
7440-02-0	Nickel	8.1		*	P
7440-09-7	Potassium	1750			P
7782-49-2	Selenium	3.7	UJK	N	P
7440-22-4	Silver	1.0	U	N	P
7440-23-5	Sodium	184	JQ		P
7440-28-0	Thallium	1.5	JQ		P
7440-62-2	Vanadium	42.0			P
7440-66-6	Zinc	213			P

Color Before: BROWN Clarity Before: _____ Texture: MEDIUM
 Color After: BROWN Clarity After: _____ Artifacts: YES

Comments: PLANT MATTER; ROCKS

IA-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MJ94T5

Lab Name: Bonner Analytical Testing Compa

Contract: EPW06055

Lab Code: BONNER Case No.: 37584

NRAS No.: SDG NO.: MJ94S6

Matrix (soil/water): SOIL

Lab Sample ID: 0808016-10

Level (low/med): LOW

Date Received: 08/02/2008

% Solids: 94.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	13200	JK		P
7440-36-0	Antimony	4.5	JQ	N	P
7440-38-2	Arsenic	6.6	JL	N	P
7440-39-3	Barium	341			P
7440-41-7	Beryllium	0.76			P
7440-43-9	Cadmium	2.8		E	P
7440-70-2	Calcium	3810			P
7440-47-3	Chromium	16.5	JK		P
7440-48-4	Cobalt	8.1			P
7440-50-8	Copper	138			P
7439-89-6	Iron	41900			P
7439-92-1	Lead	5490			P
7439-95-4	Magnesium	1700			P
7439-96-5	Manganese	706			P
7439-97-6	Mercury	0.59	JH	N	CV
7440-02-0	Nickel	23.0			P
7440-09-7	Potassium	1680			P
7782-49-2	Selenium	3.7	UJ	N	P
7440-22-4	Silver	1.1	U	WW	P
7440-23-5	Sodium	264	JQ		P
7440-28-0	Thallium	1.1	JQ		P
7440-62-2	Vanadium	33.0			P
7440-66-6	Zinc	825			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: BROWN Clarity After: Artifacts: YES

Comments: PLANT MATTER; ROCKS.

IA-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MJ94T6

Lab Name: Bonner Analytical Testing Compa

Contract: EPW06055

Lab Code: BONNER Case No.: 37584

NRAS No.:

SDG NO.: MJ94S6

Matrix (soil/water): SOIL

Lab Sample ID: 0808016-11

Level (low/med): LOW

Date Received: 08/02/2008

% Solids: 89.8

Concentration Units (ug/L or mg/kg dry weight):

MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	8340	JK		P
7440-36-0	Antimony	2.0	JQ	N	P
7440-38-2	Arsenic	2.4	JL	N	P
7440-39-3	Barium	124			P
7440-41-7	Beryllium	0.64			P
7440-43-9	Cadmium	0.27	JQ	E	P
7440-70-2	Calcium	2910			P
7440-47-3	Chromium	4.5	JK		P
7440-48-4	Cobalt	6.3			P
7440-50-8	Copper	30.6			P
7439-89-6	Iron	16400			P
7439-92-1	Lead	90.4			P
7439-95-4	Magnesium	1650			P
7439-96-5	Manganese	391			P
7439-97-6	Mercury	0.080	JQ	N	CV
7440-02-0	Nickel	5.6			P
7440-09-7	Potassium	1020			P
7782-49-2	Selenium	3.9	UK	S	P
7440-22-4	Silver	1.1	U	W	P
7440-23-5	Sodium	183	JQ		P
7440-28-0	Thallium	2.8	U		P
7440-62-2	Vanadium	30.6			P
7440-66-6	Zinc	147			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: BROWN Clarity After: Artifacts: YES

Comments: ROCKS

IA-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MJ94T7

Lab Name: Bonner Analytical Testing Compa Contract: EPW06055
 Lab Code: BONNER Case No.: 37584 NRAS No.: _____ SDG NO.: MJ94S6
 Matrix (soil/water): SOIL Lab Sample ID: 0808016-12
 Level (low/med): LOW Date Received: 08/02/2008
 % Solids: 86.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	O	M
7429-90-5	Aluminum	16100	JK	S	P
7440-36-0	Antimony	2.1	JQ	N	P
7440-38-2	Arsenic	5.6	JL	N	P
7440-39-3	Barium	316			P
7440-41-7	Beryllium	0.87			P
7440-43-9	Cadmium	2.6		E	P
7440-70-2	Calcium	4130			P
7440-47-3	Chromium	35.5	JK	*	P
7440-48-4	Cobalt	8.7			P
7440-50-8	Copper	573		*	P
7439-89-6	Iron	39100			P
7439-92-1	Lead	330		*	P
7439-95-4	Magnesium	2040			P
7439-96-5	Manganese	677			P
7439-97-6	Mercury	0.10	JQ	N	CV
7440-02-0	Nickel	36.9		*	P
7440-09-7	Potassium	1910			P
7782-49-2	Selenium	4.1	UV	N	P
7440-22-4	Silver	1.2	U	UV	P
7440-23-5	Sodium	233	JQ		P
7440-28-0	Thallium	1.6	JQ		P
7440-62-2	Vanadium	38.0			P
7440-66-6	Zinc	682			P

Color Before: BROWN Clarity Before: _____ Texture: MEDIUMColor After: BROWN Clarity After: _____ Artifacts: YESComments: ROCKS

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MJ94T8

Lab Name: Bonner Analytical Testing Compa Contract: EPW06055
 Lab Code: BONNER Case No.: 37584 NRAS No.: _____ SDG NO.: MJ94S6
 Matrix (soil/water): SOIL Lab Sample ID: 0808016-13
 Level (low/med): LOW Date Received: 08/02/2008
 % Solids: 95.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	9440	JK	*	P
7440-36-0	Antimony	0.76	JQ	N	P
7440-38-2	Arsenic	2.1	JL	N	P
7440-39-3	Barium	284			P
7440-41-7	Beryllium	0.61			P
7440-43-9	Cadmium	0.31	JQ	E	P
7440-70-2	Calcium	2220			P
7440-47-3	Chromium	5.5	JK	*	P
7440-48-4	Cobalt	5.9			P
7440-50-8	Copper	24.8		*	P
7439-89-6	Iron	13400			P
7439-92-1	Lead	72.4		*	P
7439-95-4	Magnesium	1430			P
7439-96-5	Manganese	334			P
7439-97-6	Mercury	0.38	JH	N	CV
7440-02-0	Nickel	5.1		*	P
7440-09-7	Potassium	1330			P
7782-49-2	Selenium	3.7	UW	N	P
7440-22-4	Silver	1.1	U	NW	P
7440-23-5	Sodium	168	JQ		P
7440-28-0	Thallium	2.6	U		P
7440-62-2	Vanadium	26.6			P
7440-66-6	Zinc	134			P

Color Before: BROWN Clarity Before: _____ Texture: MEDIUMColor After: BROWN Clarity After: _____ Artifacts: YESComments: PLANT MATTER

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MJ94T9

Lab Name: Bonner Analytical Testing Compa Contract: EPW06055
 Lab Code: BONNER Case No.: 37584 NRAS No.: _____ SDG NO.: MJ94S6
 Matrix (soil/water): SOIL Lab Sample ID: 0808016-14
 Level (low/med): LOW Date Received: 08/02/2008
 % Solids: 93.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No...	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	14200	JK	*	P
7440-36-0	Antimony	2.6	JQ	N	P
7440-38-2	Arsenic	7.0	JL	N	P
7440-39-3	Barium	369			P
7440-41-7	Beryllium	0.72			P
7440-43-9	Cadmium	4.1		N	P
7440-70-2	Calcium	5760			P
7440-47-3	Chromium	24.2	JK	*	P
7440-48-4	Cobalt	8.3			P
7440-50-8	Copper	154		*	P
7439-89-6	Iron	38200			P
7439-92-1	Lead	492		*	P
7439-95-4	Magnesium	1940			P
7439-96-5	Manganese	732			P
7439-97-6	Mercury	0.60	JH	N	CV
7440-02-0	Nickel	20.1		*	P
7440-09-7	Potassium	1860			P
7782-49-2	Selenium	3.7	UJK	N	P
7440-22-4	Silver	1.1	U		P
7440-23-5	Sodium	292	JQ		P
7440-28-0	Thallium	2.7	U		P
7440-62-2	Vanadium	31.2			P
7440-66-6	Zinc	948			P

Color Before: BROWN Clarity Before: _____ Texture: MEDIUMColor After: BROWN Clarity After: _____ Artifacts: YESComments: GLASS; ROCKS; PLANT MATTER

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MJ94W0

Lab Name: Bonner Analytical Testing Compa Contract: EPW06055
 Lab Code: BONNER Case No.: 37584 NRAS No.: _____ SDG NO.: MJ94S6
 Matrix (soil/water): SOIL Lab Sample ID: 0808016-15
 Level (low/med): LOW Date Received: 08/02/2008
 % Solids: 94.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	13600	JK	*	P
7440-36-0	Antimony	0.93	JQ	N	P
7440-38-2	Arsenic	3.0	JL	N	P
7440-39-3	Barium	215			P
7440-41-7	Beryllium	0.88			P
7440-43-9	Cadmium	0.78		E	P
7440-70-2	Calcium	3150			P
7440-47-3	Chromium	8.3	JK	*	P
7440-48-4	Cobalt	6.8			P
7440-50-8	Copper	54.4			P
7439-89-6	Iron	19900			P
7439-92-1	Lead	101			P
7439-95-4	Magnesium	1810			P
7439-96-5	Manganese	519			P
7439-97-6	Mercury	0.11	JH	N	CV
7440-02-0	Nickel	9.4			P
7440-09-7	Potassium	1540			P
7782-49-2	Selenium	3.7	UJK	N	P
7440-22-4	Silver	1.1	U	WV	P
7440-23-5	Sodium	198	JQ		P
7440-28-0	Thallium	2.6	U		P
7440-62-2	Vanadium	38.0			P
7440-66-6	Zinc	233			P

Color Before: BROWN Clarity Before: _____ Texture: MEDIUMColor After: BROWN Clarity After: _____ Artifacts: _____

Comments: _____

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MJ94W1

Lab Name: Bonner Analytical Testing Compa Contract: EPW06055
 Lab Code: BONNER Case No.: 37584 NRAS No.: _____ SDG NO.: MJ94S6
 Matrix (soil/water): SOIL Lab Sample ID: 0808016-16
 Level (low/med): LOW Date Received: 08/02/2008
 % Solids: 96.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	11800	JK	*	P
7440-36-0	Antimony	2.0	JQ	N	P
7440-38-2	Arsenic	2.3	JL	N	P
7440-39-3	Barium	135			P
7440-41-7	Beryllium	0.84			P
7440-43-9	Cadmium	0.14	JQ	B	P
7440-70-2	Calcium	2110			P
7440-47-3	Chromium	5.5	JK	*	P
7440-48-4	Cobalt	7.0			P
7440-50-8	Copper	14.8		*	P
7439-89-6	Iron	17800			P
7439-92-1	Lead	10.8		*	P
7439-95-4	Magnesium	1490			P
7439-96-5	Manganese	450			P
7439-97-6	Mercury	0.053	JQ	N	CV
7440-02-0	Nickel	5.0		*	P
7440-09-7	Potassium	1480			P
7782-49-2	Selenium	3.6	UV	N	P
7440-22-4	Silver	1.0	U	UV	P
7440-23-5	Sodium	169	JQ		P
7440-28-0	Thallium	2.6	U		P
7440-62-2	Vanadium	43.4			P
7440-66-6	Zinc	51.6			P

Color Before: BROWN Clarity Before: _____ Texture: MEDIUMColor After: BROWN Clarity After: _____ Artifacts: _____

Comments:

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MJ94W2

Lab Name: Bonner Analytical Testing Compa Contract: EPW06055
 Lab Code: BONNER Case No.: 37584 NRAS No.: _____ SDG NO.: MJ94S6
 Matrix (soil/water): SOIL Lab Sample ID: 0808016-17
 Level (low/med): LOW Date Received: 08/02/2008
 % Solids: 95.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	12000	JK		P
7440-36-0	Antimony	1.3	JQ		P
7440-38-2	Arsenic	2.9	JL	N	P
7440-39-3	Barium	150			P
7440-41-7	Beryllium	0.90			P
7440-43-9	Cadmium	0.37	JQ	E	P
7440-70-2	Calcium	2450			P
7440-47-3	Chromium	6.5	JK		P
7440-48-4	Cobalt	8.2			P
7440-50-8	Copper	25.6			P
7439-89-6	Iron	19700			P
7439-92-1	Lead	42.6			P
7439-95-4	Magnesium	1390			P
7439-96-5	Manganese	508			P
7439-97-6	Mercury	0.085	JQ	N	CV
7440-02-0	Nickel	5.7			P
7440-09-7	Potassium	1420			P
7782-49-2	Selenium	3.6	UJY	N	P
7440-22-4	Silver	1.0	U		P
7440-23-5	Sodium	187	JQ		P
7440-28-0	Thallium	2.6	U		P
7440-62-2	Vanadium	47.7			P
7440-66-6	Zinc	111			P

Color Before: BROWN Clarity Before: _____ Texture: MEDIUMColor After: BROWN Clarity After: _____ Artifacts: _____Comments: _____

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MJ94W3

Lab Name: Bonner Analytical Testing Compa Contract: EPW06055
 Lab Code: BONNER Case No.: 37584 NRAS No.: _____ SDG NO.: MJ94S6
 Matrix (soil/water): SOIL Lab Sample ID: 0808016-18
 Level (low/med): LOW Date Received: 08/02/2008
 % Solids: 95.3

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	15100	JK		P
7440-36-0	Antimony	1.6	JQ	N	P
7440-38-2	Arsenic	5.0	JL	N	P
7440-39-3	Barium	223			P
7440-41-7	Beryllium	0.90			P
7440-43-9	Cadmium	1.1		E	P
7440-70-2	Calcium	2890			P
7440-47-3	Chromium	10.4	JK		P
7440-48-4	Cobalt	7.7			P
7440-50-8	Copper	66.2			P
7439-89-6	Iron	29700			P
7439-92-1	Lead	130			P
7439-95-4	Magnesium	1750			P
7439-96-5	Manganese	574			P
7439-97-6	Mercury	0.22	JK	N	CV
7440-02-0	Nickel	13.9			P
7440-09-7	Potassium	1670			P
7782-49-2	Selenium	3.7	UJK	N	P
7440-22-4	Silver	1.0	U	MV	P
7440-23-5	Sodium	170	JQ		P
7440-28-0	Thallium	2.6	U		P
7440-62-2	Vanadium	40.4			P
7440-66-6	Zinc	291			P

Color Before: BROWN Clarity Before: _____ Texture: MEDIUMColor After: BROWN Clarity After: _____ Artifacts: _____Comments: _____

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MJ94W4

Lab Name: Bonner Analytical Testing Compa Contract: EPW06055
 Lab Code: BONNER Case No.: 37584 NRAS No.: _____ SDG NO.: MJ94S6
 Matrix (soil/water): SOIL Lab Sample ID: 0808016-19
 Level (low/med): LOW Date Received: 08/02/2008
 % Solids: 89.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	15800	JK		P
7440-36-0	Antimony	6.7	U	N	P
7440-38-2	Arsenic	2.0	JL		P
7440-39-3	Barium	169			P
7440-41-7	Beryllium	0.80			P
7440-43-9	Cadmium	0.56	U	E	P
7440-70-2	Calcium	1930			P
7440-47-3	Chromium	6.0	JK		P
7440-48-4	Cobalt	5.9			P
7440-50-8	Copper	9.9			P
7439-89-6	Iron	16300			P
7439-92-1	Lead	4.5			P
7439-95-4	Magnesium	2050			P
7439-96-5	Manganese	311			P
7439-97-6	Mercury	0.11	U	N	CV
7440-02-0	Nickel	5.9			P
7440-09-7	Potassium	1820			P
7782-49-2	Selenium	3.9	UW	N	P
7440-22-4	Silver	1.1	U	MW	P
7440-23-5	Sodium	165	JQ		P
7440-28-0	Thallium	2.8	U		P
7440-62-2	Vanadium	40.1			P
7440-66-6	Zinc	29.0			P

Color Before: BROWN Clarity Before: _____ Texture: MEDIUMColor After: BROWN Clarity After: _____ Artifacts: _____

Comments: _____

IA-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MJ94W5

Lab Name: Bonner Analytical Testing Compa Contract: EPW06055
 Lab Code: BONNER Case No.: 37584 NRAS No.: _____ SDG NO.: MJ94S6
 Matrix (soil/water): SOIL Lab Sample ID: 0808016-20
 Level (low/med): LOW Date Received: 08/02/2008
 % Solids: 82.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	15600	JK		P
7440-36-0	Antimony	2.0	JQ	N	P
7440-38-2	Arsenic	2.5	JL	N	P
7440-39-3	Barium	183			P
7440-41-7	Beryllium	0.87			P
7440-43-9	Cadmium	0.19	JQ	E	P
7440-70-2	Calcium	3210			P
7440-47-3	Chromium	6.5	JK		P
7440-48-4	Cobalt	5.7	JQ		P
7440-50-8	Copper	17.4			P
7439-89-6	Iron	15400			P
7439-92-1	Lead	23.6			P
7439-95-4	Magnesium	2100			P
7439-96-5	Manganese	441			P
7439-97-6	Mercury	0.055	JQ	N	CV
7440-02-0	Nickel	6.8			P
7440-09-7	Potassium	1580			P
7782-49-2	Selenium	4.2	UJK	N	P
7440-22-4	Silver	1.2	U	MW	P
7440-23-5	Sodium	209	JQ		P
7440-28-0	Thallium	3.0	U		P
7440-62-2	Vanadium	31.4			P
7440-66-6	Zinc	75.9			P

Color Before: BROWN Clarity Before: _____ Texture: MEDIUMColor After: BROWN Clarity After: _____ Artifacts: _____

Comments: _____



ecology and environment, inc.

International Specialists in the Environment

720 Third Avenue, Suite 1700, Seattle, WA 98104
Tel: (206) 624-9537, Fax: (206) 621-9832

MEMORANDUM

DATE: September 26, 2008

TO: Linda Costello, Project Manager, E & E, Seattle, Washington

FROM: Mark Woodke, START-3 Chemist, E & E, Seattle, Washington *MW*

SUBJ: **Organic Data Summary Check, McCall – Old City Dump Site,
McCall, Idaho**

REF: TDD: 07-03-0007 PAN: 002233.0192.01BR

The data summary check of one water sample collected from the McCall – Old City Dump site in McCall, Idaho, has been completed. Volatile Organic Compound (VOC) analysis (EPA CLP SOW SOM01.2) was performed by DataChem, Inc., Salt Lake City, Utah.

The sample was numbered: J94S5

The 1,4-dioxane result was rejected (R) by the secondary reviewer as listed in the memorandum.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 10
1200 Sixth Avenue
Seattle, WA 98101

September 24, 2008

MEMORANDUM

SUBJECT: Data validation report for the volatile organic (VOCs) analysis of samples from the Old McCall Landfill Site Case: 37584 SDGs: J94S5

FROM: Raymond Wu, Chemist
Office of Environmental Assessment *9/24/08*

TO: Joanne Labaw, Site Assessment Manager
Office of Environmental Cleanup

CC: Renee Nordeen, Project Manager
Ecology & Environment, Inc.

The quality assurance (QA) review of 1 water sample collected from the above referenced site has been completed. The sample was analyzed for VOCs in accordance with the USEPA Contract Laboratory Program (CLP) Statement of Work (SOW) for low/medium Concentration Organic Analyses (SOM01.2) by Datachem in Salt Lake City, Utah. The following sample was evaluated in this validation report:

SDG J94S5:
J94S5

DATA QUALIFICATIONS

The following comments refer to the laboratory performance specification outlined in the Quality Assurance Project Plan (for sub-surface soil Sampling at Old McCall Landfill Brownfield Site, McCall, ID) dated April, 2008, USEPA CLP SOW for Organic Analysis (SOM01.2), and the USEPA CLP National Functional Guidelines for Organic Data Review (07/2007). The data review conducted on these analyses were based on the QC Forms and Data Summary Forms submitted by the laboratories. Review of the raw data of the analyses was not conducted. The conclusions presented herein are based on the information provided for the review. The sample was evaluated based on the following QC elements:

- \$ Holding Time
- \$ Method and Trip Blanks
- \$ Initial and Continuing Calibration
- \$ Surrogate Recoveries
- \$ Lab Control Spike Recovery
- \$ Target Compound and Reporting Limits
- \$ GC/MS Spectra Matching Criteria

Overall Assessment

The sample met the technical acceptance criteria for each of the QC elements listed above with the exceptions of the following:

- \$ 1,4-Dioxane was lower than the required minimum RRF (0.01) in the ICAL and it was not detected in the sample. Due to the possibility of false negative, the 1,4-Dioxane result was qualified unusable "R".
- \$ All of the CCV checks met the criteria for frequency of analysis, the SOW specified, minimum RRFs and %Ds as compared to the initial calibration with the exception of the RRF in 1,4-Dioxane and the following:

Date/Time of Analysis/ Inst.	Compound	%D	Qualifier Detect/Non-detect	Associated Samples
8/5/08 @ 11:52	Chloroethane	29.1	J/None	J94S5
5975-B GC/MS (Opening CCV)	Trichlorofluoromethane	30.5	J/None	"
	2-Hexanone	33.2	J/None	"

VOC DMCs (Water)	Recovery Limits (%)	VOC DMCs (Water)	Recovery Limits (%)
Vinyl Chloride-d3 (VCL)	65-131	1,2-Dichloropropane-d6 (DPA)	79-124
Chloroethane-d5 (CLA)	71-131	Toluene-d8 (TOL)	77-121
1,1-Dichloroethene-d2 (DCE)	55-104	Trans-1,3-Dichloropropene-d4 (TDP)	73-121
2-Butanone-d5 (BUT)	49-155	2-Hexanone-d5 (HEX)	28-135
Chloroform-d (CLF)	78-121	1,4-Dioxane-d8 (DXE)	50-150
1,2-Dichloroethane-d4 (DCA)	78-129	1,1,2,2-Tetrachloroethane-d2 (TCA)	73-125
Benzene-d6 (BEN)	77-124	1,2-Dichlorobenzene-d4 (DCZ)	80-131

All of the volatile surrogate recoveries met the applicable recovery criteria & all the blanks were clean.

The data, as qualified, with exclusion of 1,4-Dioxane, can be used for all purposes.

Data Qualifiers		
	U	The analyte was not detected at or above the reported numeric result.
	J	The analyte was positively identified. The associated numerical result is an estimate.
	UJ	The analyte was not detected at or above the reported estimated result. The associated numerical value is an estimate of the quantitation limit of the analyte in this sample.
	N	There is evidence the analyte is present in this sample.
	JN	There is evidence that the analyte is present. The associated numerical result is an estimate.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J94S5

Lab Name: <u>DataChem Laboratories, Inc.</u>	Contract: <u>EP-W-05-026</u>		
Lab Code: <u>DATAC</u>	Case No.: <u>37584</u>	Mod. Ref No.: _____	SDG No.: <u>J94S5</u>
Matrix: (SOIL/SED/WATER) <u>WATER</u>	Lab Sample ID: <u>8215002001</u>		
Sample wt/vol: <u>5.00</u> (g/mL) <u>mL</u>	Lab File ID: <u>BD84J4S5</u>		
Level: (TRACE/LOW/MED) <u>LOW</u>	Date Received: <u>08/02/2008</u>		
% Moisture: not dec.	Date Analyzed: <u>08/05/2008</u>		
GC Column: <u>RTX-VMS</u>	<u>ID: 0.25</u>	(mm)	Dilution Factor: <u>1.0</u>
Soil Extract Volume: _____	(uL)	Soil Aliquot Volume: _____ (uL)	
Purge Volume: <u>5.0</u>	(mL)		

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
67-64-1	Acetone	10.	U
75-15-0	Carbon disulfide	5.0	U
79-20-9	Methyl acetate	5.0	U
75-09-2	Methylene chloride	5.0045	JB U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-Butanone	10.	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
123-91-1	1,4-Dioxane	R 100	U AM

R
9/24/08 12

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

J94S5

Lab Name: DataChem Laboratories, Inc. Contract: EP-W-05-026
 Lab Code: DATAC Case No.: 37584 Mod. Ref No.: _____ SDG No.: J94S5
 Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 8215002001
 Sample wt/vol: 5.00 (g/mL) mL Lab File ID: BD84J4S5
 Level: (TRACE/LOW/MED) LOW Date Received: 08/02/2008
 % Moisture: not dec. Date Analyzed: 08/05/2008
 GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)
 Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
79-01-6	Trichloroethene	5.0	U
108-87-2	Methylcyclohexane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-Pentanone	10.	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	10.	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
95-47-6	o-Xylene	5.0	U
179601-23-1	m,p-Xylene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloroproppane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U

R
9/24/08 13

1J - FORM I VOA-TIC
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

J94S5

Lab Name: <u>DataChem Laboratories, Inc.</u>	Contract: <u>EP-W-05-026</u>		
Lab Code: <u>DATA C</u>	Case No.: <u>37584</u>	Mod. Ref No.: _____	SDG No.: <u>J94S5</u>
Matrix: (SOIL/SED/WATER) <u>WATER</u>	Lab Sample ID: <u>8215002001</u>		
Sample wt/vol: <u>5.00</u> (g/mL) mL	Lab File ID: <u>BD84J4S5</u>		
Level: (TRACE/LOW/MED) <u>LOW</u>	Date Received: <u>08/02/2008</u>		
% Moisture: not dec.	Date Analyzed: <u>08/05/2008</u>		
GC Column: <u>RTX-VMS</u>	<u>ID: 0.25</u>	(mm)	Dilution Factor: <u>1.0</u>
Soil Extract Volume: _____	(uL) Soil Aliquot Volume: _____ (uL)		
CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u>	Purge Volume: <u>5.0</u> (mL)		

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01				
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
E966796 ¹	Total Alkanes		N/A	

¹EPA-designated Registry Number.

R 14

9/24/08

SOM01.2 (6/2007)



ecology and environment, inc.

International Specialists in the Environment

720 Third Avenue, Suite 1700, Seattle, WA 98104
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MEMORANDUM

DATE: October 17, 2008

TO: Linda Costello, Project Manager, E & E, Seattle, Washington

FROM: Mark Woodke, START-3 Chemist, E & E, Seattle, Washington *MW*

SUBJ: **Geotechnical Data Quality Assurance Review, McCall – Old City Dump Site,
McCall, Idaho**

REF: TDD: 07-03-0007

PAN: 002233.0192.01BR

The data quality assurance review of two soil samples collected from the McCall – Old City Dump site in McCall, Idaho, has been completed. Modified Proctor (ASTM D1557), Atterberg Limits (ASTM D4318), and moisture content (ASTM D2216) analyses were performed by Analytical Resources, Inc., Seattle, Washington.

The samples were numbered: MC12SS MC19SS

No issues were noted in the case narrative.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Client: Ecology and Environment, Inc.

Project No.: NJ04

Client Project: TEC-926A

Case Narrative

1. Samples of soil were received for modified Proctor, Atterberg limits and moisture content on August 4, 2008
2. The modified Proctor testing was run according to ASTM D1557, method C. Material greater than the $\frac{3}{4}$ inch sieve was removed.
3. The Atterberg limits were run according to ASTM D4318. Both samples were non-plastic and would not roll to $1/8^{\text{th}}$ inch.
4. The moisture content was run according to ASTM D2216. Both samples were very dry when received.
5. The data is provided in summary tables and plots.
6. There were no other noted anomalies in the sample or methods on this project.

Approved by: Hall Barry
Title: Geotechnical Division Manager

Date: 10/16/08

GEOTECHNICAL ANALYSIS DATA SHEET
Moisture Content by Method ASTM D2216



Data Release Authorized: *(Signature)*
Reported: 10/11/08
Date Received: 08/04/08
Page 1 of 1

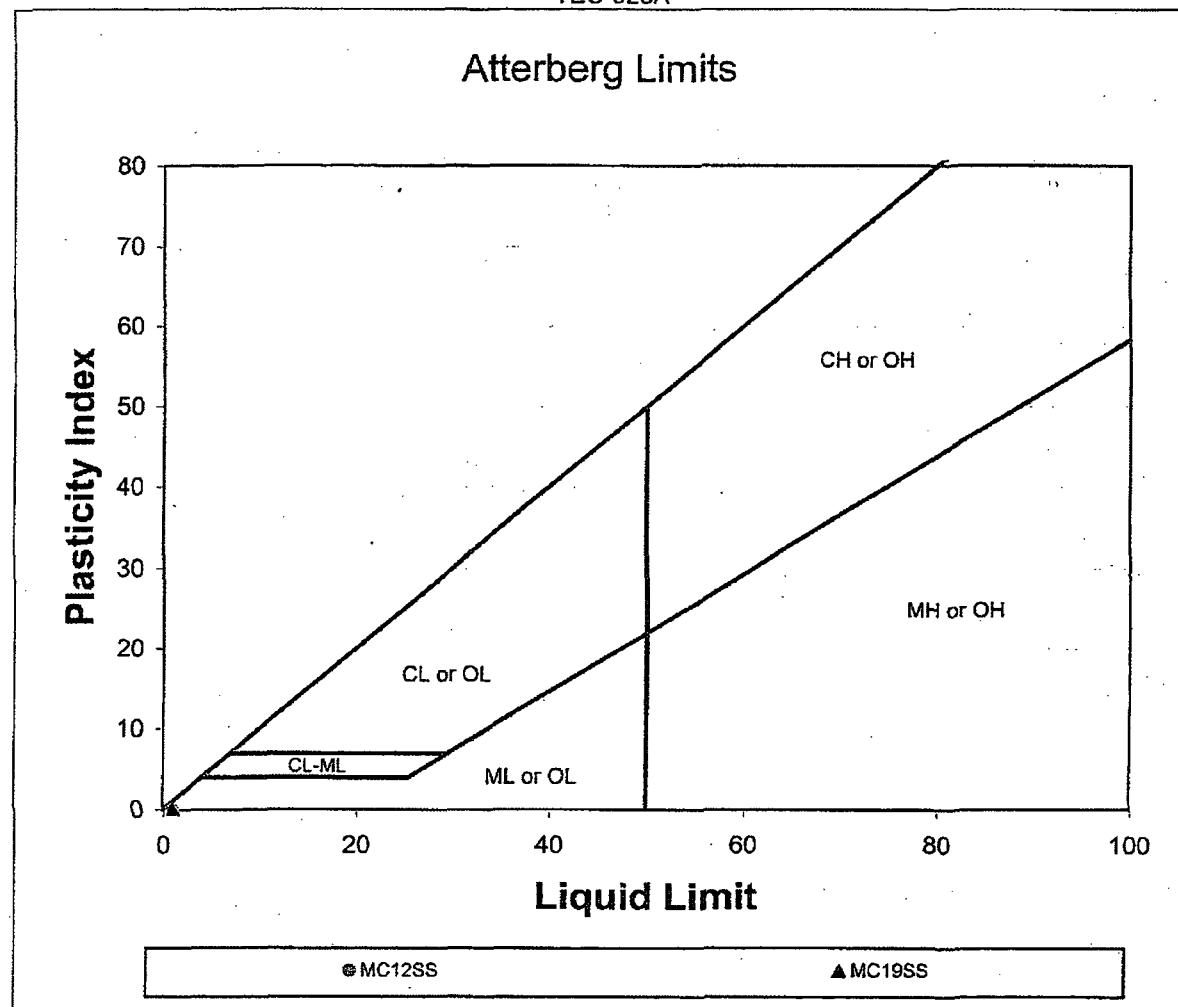
QC Report No: NJ04-Ecology & Environment, Inc.
Project: TEC-926A

Client/ ARI ID	Date Sampled	Matrix	Analysis Date	Result
MC12SS NJ04C 08-18937	07/30/08	Soil	10/11/08	2.28
MC19SS NJ04D 08-18938	07/31/08	Soil	10/11/08	3.89

Reported in Percent

MWN
10-17-08

Ecology and Environment, Inc.
TEC-926A

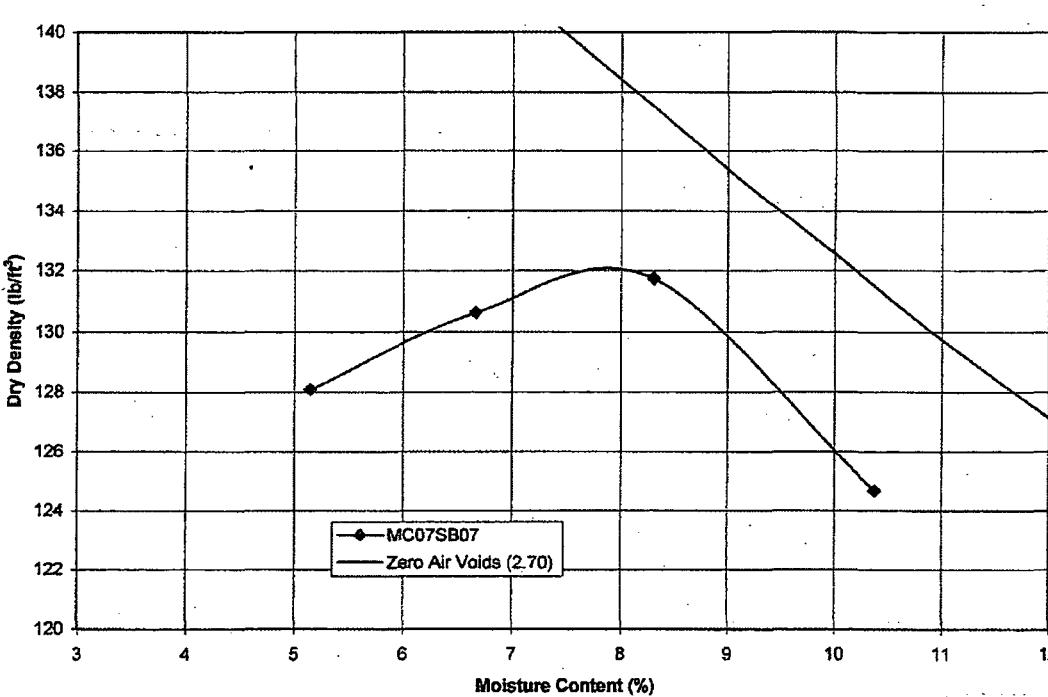


Boring Number	Sample Number	Depth (ft)	As-Received Moisture Content	Plasticity Index	Liquid Limit	Plastic Limit	USCS
MC12SS	NA	NA	2.28	NA	NA	NA	Non-Plastic
MC19SS	NA	NA	3.89	NA	NA	NA	Non-Plastic

NJ04

MW [07-08]

Moisture Density Relationship
ASTM D-1557, Method C

Client:	Ecology and Environment, Inc.		Date:	October 10, 2008		
Project:	TEC-926A					
Project No.:	NJ04					
Sample ID:	MC07SB07					
Optimum Moisture Content	Standard		Corrected			
	7.9	%	5.0	%		
Maximum Density	132.0	lb/ft ³	145.3	lb/ft ³		
Percent retained on the 3/4 inch sieve	43.4		Rock correction required?	Yes		
Note: The plot shows as-tested data (material greater than 3/4" removed).						
<p align="center">Moisture Density Relationship ASTM D1557</p>  <p>The graph plots Dry Density (lb/ft³) on the Y-axis (ranging from 120 to 140) against Moisture Content (%) on the X-axis (ranging from 3 to 12). A bell-shaped curve represents the data points for sample MC07SB07. A straight line represents the theoretical relationship for zero air voids (2.70). The data points are approximately at (5.5, 128), (7.0, 131), (8.0, 132), and (10.5, 125).</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td>● MC07SB07</td> </tr> <tr> <td>— Zero Air Voids (2.70)</td> </tr> </table>					● MC07SB07	— Zero Air Voids (2.70)
● MC07SB07						
— Zero Air Voids (2.70)						
If required, the Rock Correction is performed according to ASTM D4718						

MW/10/7/08

**Moisture Density Relationship
ASTM D-1557, Method C**

Client:	Ecology and Environment, Inc.		Date:	October 10, 2008											
Project:	TEC-926A														
Project No.:	NJ04														
Sample ID:	MC09SB06														
Optimum Moisture Content	Standard		Corrected												
	13.6	%	NA	%											
Maximum Density	108.6	lb/ft ³	NA	lb/ft ³											
Percent retained on the 3/4 inch sieve	5.8	Rock correction required?	No												
Note: The plot shows as-tested data (material greater than 3/4" removed).															
<p style="text-align: center;">Moisture Density Relationship ASTM D1557</p> <p>The graph plots Dry Density (lb/ft³) on the y-axis (ranging from 100 to 120) against Moisture Content (%) on the x-axis (ranging from 8 to 18). A bell-shaped curve represents the data points for sample MC09SB06, which peak at approximately 108.5 lb/ft³ at 13.6% moisture content. A straight line labeled "Zero Air Voids (2.70)" starts at approximately 105.5 lb/ft³ at 10.5% moisture content and ends at approximately 120 lb/ft³ at 15.5% moisture content.</p> <table border="1"><caption>Data points estimated from the graph</caption><thead><tr><th>Moisture Content (%)</th><th>Dry Density (lb/ft³)</th></tr></thead><tbody><tr><td>10.5</td><td>103.5</td></tr><tr><td>11.5</td><td>107.0</td></tr><tr><td>13.6</td><td>108.5</td></tr><tr><td>15.5</td><td>107.5</td></tr></tbody></table>						Moisture Content (%)	Dry Density (lb/ft ³)	10.5	103.5	11.5	107.0	13.6	108.5	15.5	107.5
Moisture Content (%)	Dry Density (lb/ft ³)														
10.5	103.5														
11.5	107.0														
13.6	108.5														
15.5	107.5														

If required, the Rock Correction is performed according to ASTM D4718

MW 10-17-08



ecology and environment, inc.

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MEMORANDUM

DATE: November 11, 2008

TO: Linda Costello, Project Manager, E & E, Seattle, Washington

FROM: Mark Woodke, START-3 Chemist, E & E, Seattle, Washington *MW*

SUBJ: Organic Data Summary Check, McCall Old City Dump Site,
McCall, Idaho

REF: TDD: 07-03-0007 PAN: 002233.0192.01BR

The data summary check of 5 soil samples collected from the McCall Old City Dump site in McCall, Idaho, has been completed. TCLP pesticide analysis (modified EPA Method 8270) was performed by Manchester Environmental Laboratory, Port Orchard, Washington.

The samples were numbered:

08304201 08304203 08304208 08304212 08304220

No discrepancies were noted.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 10 LABORATORY
7411 Beach Dr. East
Port Orchard, Washington 98366

MEMORANDUM

SUBJECT: Data Release for TCLP Pesticides Analysis Results from the USEPA Region 10 Laboratory

PROJECT NAME: Old McCall Landfill

PROJECT CODE: TEC-926A

FROM: Gerald Dodo, Chemistry Supervisor
Office of Environmental Assessment
USEPA Region 10 Laboratory

TO: Joanne Labaw, Task Monitor
Office of Environmental Cleanup
USEPA Region 10

CC: Renee Nordeen
Ecology and Environment

I have authorized release of this data package. Attached you will find the pesticides analysis results for the Old McCall Landfill samples collected 7/30-7/31/08. For further information regarding the attached data, contact Steve Reimer at 360-871-8718. For the schedule of the remaining analyses, please contact me at 360-871-8728.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 10 LABORATORY
7411 Beach Dr. East
Port Orchard, Washington 98366

**QUALITY ASSURANCE MEMORANDUM
FOR ORGANIC CHEMICAL ANALYSES**

DATE: October 6, 2008

TO: Joanne Labaw, Task Monitor
Office of Environmental Cleanup, USEPA Region 10

FROM: Steven Reimer, Chemist
Office of Environmental Assessment, USEPA Region 10

SUBJECT: Quality Assurance Review of Old McCall Landfill
For: TCLP Pesticide Analysis
Project Code: TEC-926A
Account Code: 0809B10P402D43C1000ON00

CC: Renee Nordeen,
Ecology and Environment

The following is a quality assurance review of the TCLP pesticide analysis of 5 soil samples from the Old McCall Landfill Project. The analyses were performed by EPA chemists at the US EPA Region 10 Laboratory in Port Orchard, WA, using modified methods SW-846 3541, 3660 and 8081.

This review was conducted for the following samples:

08304201 08304203 08304208 08304212 08304220

1. Data Qualifications

Comments below refer to the quality control specifications outlined in the Laboratory's current Quality Assurance Manual, Standard Operating Procedures (SOPs) and the Quality Assurance Project Plan (QAPP). The requested analysis was for TCLP Pesticides. As allowed in the method, analysis for total concentration of the regulated analytes was done to determine if leaching was required. No excursions were required from the method Standard Operating Procedure.

The quality control measures which did not meet Laboratory/QAPP criteria are annotated in the title of each affected subsection with "Laboratory/QAPP Criteria Not Met"

For those tests for which the USEPA Region 10 Laboratory has been accredited by the National

Environmental Laboratory Accreditation Conference (NELAC), all requirements of the current NELAC Standard have been met. The Region 10 Laboratory's Quality System has been accredited to the standards of the National Environmental Laboratory Accreditation Conference (NELAC).

2. Sample Transport and Receipt

Upon sample receipt, no conditions were noted that would affect data quality for this project

3. Sample Holding Times

The concentration of an analyte in a sample or extract of a sample may increase or decrease over time depending on the nature of the analyte. For this reason, holding time limits are recommended for samples and extracts. The samples and extracts covered by this review met method holding time recommendations.

4. Sample Preparation

Samples were prepared according to the method outlined in the SOP for these analytes for this type of matrix. No qualification of the data was required based on sample preparation.

5. Initial Calibration and Calibration Verification

The calibration functions generated for the initial calibration met SOP criteria. The Minimum Reporting Level (MRL) is the lowest point for which the calculated value tests within laboratory specified criteria. Calibration verification checks met the frequency and recovery criteria on the day of analysis with the exception of endrin which was >20% high. No endrin was detected in any of the samples. No qualification was required based on calibration or calibration verification.

The initial calibration checked against the second source resulted in percent differences from the expected values of $\leq 30\%$ for all compounds.

6. Laboratory Control Samples

Data for laboratory control samples are generated to provide information on the accuracy of the analytical method and the laboratory performance. Two sets of four spiked soil blanks were generated. One set for single component pesticides and one set for toxaphene and chlordane. Both sets met expected criteria.

7. Blank Analysis

The method blanks did not contain detectable levels of analytes which would require data qualification.

8. Surrogate Spikes

All surrogate recoveries met SOP recovery criteria. No qualification is required.

9 Matrix Spike/Matrix Spike Duplicate Analysis

Duplicate matrix spikes were prepared on replicates of sample 08304208 for both single and multi-component pesticides. All met precision and recovery criteria for soil matrix spikes.

10. Compound Quantitation

All results for analytes that are not detected are assigned the value of the MRL and the 'U' qualifier is attached. The results for analytes which are detected below the MRL and above the Minimum Detection Limit (MDL) are reported with a 'J' qualifier attached.

All manual integrations have been reviewed and found to comply with acceptable integration practices.

No TCLP analytes were detected at an order of magnitude below TCLP limits so the leaching procedure was not performed.

11. Identification

The RRTs for all detected target compounds were within acceptable limits of the initial standards for both columns. Further confirmation for DDT components and chlordane was provided by GC/MS analysis. Criteria were met for mass spectral ion matching and ion abundance matching and were judged acceptable.

12. Data Qualifiers

Below are the definitions for the codes used when qualifying data from these analyses. When more than one quality issue was involved, the most restrictive qualifier has been attached to the data:

U - The analyte was not detected at or above the reported value.

J - The identification of the analyte is acceptable; however the reported value is an estimate.

UJ - The analyte was not detected at or above the reported value. The reported value is an estimate.

The usefulness of qualified data should be treated according to the severity of the qualifier in light of the project's data quality objectives. Should questions arise regarding the data, contact Steven Reimer at the Region 10 Laboratory, phone number (360)871-8718.

Definitions

Accuracy - the degree of conformity of a measured or calculated quantity to its actual value.

Duplicate Analysis – when a duplicate of a sample (DS), a matrix spike (MSD), or a laboratory control sample (LCSD) is analyzed, it is possible to use the comparison of the results in terms of relative percent difference (RPD) to calculate precision.

Internal standards - Compounds used to help evaluate instrument analytical performance for individual samples. Internal standards provide an instrument response for reference to accurately quantify the analytes for all associated instrumental analyses.

Laboratory Control Sample (LCS) - a clean matrix spiked with known quantities of analytes. The LCS is processed with samples through every step of preparation and analysis. Measuring percent recovery of each analyte in the LCS provides a measurement of accuracy for the analyte in the project samples. A laboratory control sample is prepared and analyzed at a frequency no less than one for every 20 project samples.

Matrix Spike/Matrix Spike Duplicate (MS/MSD) - Sample analyses performed to provide information about the effect of the sample matrix on analyte recovery and measurement within the project samples. To create the MS/MSD, a project sample is spiked with known quantities of analytes and the percent recovery of the analytes are determined.

Method Blank- An analytical control that is carried through the entire analytical procedure. The method blank is used to define the level of laboratory background and reagent contamination. A method blank is prepared and analyzed for every batch of samples at a minimum frequency of one per every 20 samples. To produce unqualified data, the result of the method blank analysis is required to be less than the MRL and less than 5 times the amount of analyte found in any project sample.

Minimum Reporting Level (MRL) - the smallest measured concentration of a substance that can be reliably measured using a given analytical method.

Peak Integrations - The output of many analytical instruments is a peak which represents the quantity of analyte in the sample. The instrument automatically integrates the peak area to provide the concentration of the analyte; however, sometimes these peaks need to be manually integrated by the analyst.

Precision – the degree of mutual agreement or repeatability among a series of individual results.

Reference materials – Samples with analyte values that are homogeneous and well established. This allows the reference material to be used to assess the accuracy of the measurement method.

Relative Percent Difference – The difference between two sample results divided by their mean and expressed as a percentage.

Surrogate Spikes - usually isotopically labeled versions of analytes of concern or compounds not typically found in the environment. They are used to help evaluate laboratory preparation and analysis performance for individual samples. The surrogate spike differs from the LCS (above) in that it is placed in each project sample to assess preparation and analytical efficiency.

Manchester Environmental Laboratory
Report by Parameter for Project TEC-926A

Project Code:	TEC-926A	Collected:	7/30/08	10:05:00
Project Name:	OLD MCCALL LANDFILL MCCALL, ID	Matrix:	Solid	
Project Officer:	JOANNE LABAW	Sample Number:	08304201	
Account Code:	0809B10P402D43C1000ON00	Type:	Reg sample	
Station Description:	MC01SB12			

		Result	Units	Qlfr
GC				
Parameter	Generic GC scan			Container ID : N1
Method	8081	Chlorinated Pesticides, SW 846		Analysis Date : 9/5/2008
Prep Method	3541	Automated soxhlet extraction		Prep Date :
Analytes(s):	57749	Chlordane (Tech)	10	ug/Kg J
	8001352	Toxaphene	181	ug/Kg U
Surrogate(s):	2051243	Decachlorobiphenyl	87	%Rec
	877098	Tetrachlorometaxylene	83	%Rec
Parameter	Pesticides			Container ID : N1
Method	8081	Chlorinated Pesticides, SW 846		Analysis Date : 9/12/2008
Prep Method	3541	Automated soxhlet extraction		Prep Date :
Analytes(s):	309002	Aldrin	6	ug/Kg U
	319846	Alpha-BHC	6	ug/Kg U
	319857	Beta-BHC	6	ug/Kg U
	5103719	cis-Chlordane (alpha-Chlordane)	3	ug/Kg J
	319868	Delta-BHC	6	ug/Kg U
	60571	Dieldrin	6	ug/Kg U
	959988	Endosulfan I	6	ug/Kg U
	33213659	Endosulfan II	6	ug/Kg U
	1031078	Endosulfan Sulfate	6	ug/Kg U
	72208	Endrin	6	ug/Kg U
	7421934	Endrin Aldehyde	6	ug/Kg U
	53494705	Endrin Ketone	6	ug/Kg U
	5103742	Gamma-Chlordane	1	ug/Kg J
	76448	Heptachlor	6	ug/Kg U
	1024573	Heptachlor Epoxide	1	ug/Kg J
	58899	Lindane	6	ug/Kg U
	72435	Methoxychlor	6	ug/Kg U
	72548	P,P'-DDD	2	ug/Kg J
	72559	P,P'-DDE	7	ug/Kg
	50293	P,P'-DDT	11	ug/Kg
Surrogate(s):	2051243	Decachlorobiphenyl	97	%Rec
	877098	Tetrachlorometaxylene	87	%Rec

Manchester Environmental Laboratory
Report by Parameter for Project TEC-926A

Project Code:	TEC-926A	Collected:	7/30/08	11:45:00
Project Name:	OLD MCCALL LANDFILL MCCALL, ID	Matrix:	Solid	
Project Officer:	JOANNE LABAW	Sample Number:	08304203	
Account Code:	0809B10P402D43C1000ON00	Type:	Reg sample	
Station Description:	MC03SB12			

		Result	Units	Olfr
GC				
Parameter	: Generic GC scan			
Method	: 8081	Chlorinated Pesticides, SW 846		Container ID : N1
Prep Method	: 3541	Automated soxhlet extraction		Analysis Date : 9/5/2008
Prep Date :				
Analytes(s):	57749	Chlordane (Tech)	57	ug/Kg U
	8001352	Toxaphene	171	ug/Kg U
Surrogate(s):	2051243	Decachlorobiphenyl	83	%Rec
	877098	Tetrachlorometaxylene	72	%Rec
Parameter	: Pesticides			Container ID : N1
Method	: 8081	Chlorinated Pesticides, SW 846		Analysis Date : 9/12/2008
Prep Method	: 3541	Automated soxhlet extraction		Prep Date :
Prep Date :				
Analytes(s):	309002	Aldrin	6	ug/Kg U
	319846	Alpha-BHC	6	ug/Kg U
	319857	Beta-BHC	6	ug/Kg U
	5103719	cis-Chlordane (alpha-Chlordane)	6	ug/Kg U
	319868	Delta-BHC	6	ug/Kg U
	60571	Dieldrin	6	ug/Kg U
	959988	Endosulfan I	6	ug/Kg U
	33213659	Endosulfan II	6	ug/Kg U
	1031078	Endosulfan Sulfate	6	ug/Kg U
	72208	Endrin	6	ug/Kg U
	7421934	Endrin Aldehyde	6	ug/Kg U
	53494705	Endrin Ketone	6	ug/Kg U
	5103742	Gamma-Chlordane	6	ug/Kg U
	76448	Heptachlor	6	ug/Kg U
	1024573	Heptachlor Epoxide	6	ug/Kg U
	58899	Lindane	6	ug/Kg U
	72435	Methoxychlor	6	ug/Kg U
	72548	P,P'-DDD	7	ug/Kg
	72559	P,P'-DDE	8	ug/Kg
	50293	P,P'-DDT	35	ug/Kg
Surrogate(s):	2051243	Decachlorobiphenyl	98	%Rec
	877098	Tetrachlorometaxylene	75	%Rec

Manchester Environmental Laboratory
Report by Parameter for Project TEC-926A

Project Code:	TEC-926A	Collected:	7/30/08	14:15:00
Project Name:	OLD MCCALL LANDFILL MCCALL, ID	Matrix:	Solid	
Project Officer:	JOANNE LABAW	Sample Number:	08304208	
Account Code:	0809B10P402D43C1000ON00	Type:	Reg sample	
Station Description:	MC05SB08			

			Result	Units	Qlfr
GC					
Parameter	: Generic GC scan			Container ID :	N1
Method	: 8081	Chlorinated Pesticides, SW 846		Analysis Date :	9/5/2008
Prep Method	: 3541	Automated soxhlet extraction		Prep Date :	
Analytes(s):	57749	Chlordane (Tech)	51	ug/Kg	U
	8001352	Toxaphene	152	ug/Kg	U
Surrogate(s):	2051243	Decachlorobiphenyl	92	%Rec	
	877098	Tetrachlorometaxylene	65	%Rec	
Parameter	: Pesticides			Container ID :	N1
Method	: 8081	Chlorinated Pesticides, SW 846		Analysis Date :	9/12/2008
Prep Method	: 3541	Automated soxhlet extraction		Prep Date :	
Analytes(s):	309002	Aldrin	5	ug/Kg	U
	319846	Alpha-BHC	5	ug/Kg	U
	319857	Beta-BHC	5	ug/Kg	U
	5103719	cis-Chlordane (alpha-Chlordane)	5	ug/Kg	U
	319868	Delta-BHC	5	ug/Kg	U
	60571	Dieldrin	5	ug/Kg	U
	959988	Endosulfan I	5	ug/Kg	U
	33213659	Endosulfan II	5	ug/Kg	U
	1031078	Endosulfan Sulfate	5	ug/Kg	U
	72208	Endrin	5	ug/Kg	U
	7421934	Endrin Aldehyde	5	ug/Kg	U
	53494705	Endrin Ketone	5	ug/Kg	U
	5103742	Gamma-Chlordane	5	ug/Kg	U
	76448	Heptachlor	5	ug/Kg	U
	1024573	Heptachlor Epoxide	5	ug/Kg	U
	58899	Lindane	5	ug/Kg	U
	72435	Methoxychlor	5	ug/Kg	U
	72548	P,P'-DDD	5	ug/Kg	U
	72559	P,P'-DDE	2	ug/Kg	J
	50293	P,P'-DDT	2	ug/Kg	J
Surrogate(s):	2051243	Decachlorobiphenyl	103	%Rec	
	877098	Tetrachlorometaxylene	66	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-926A

Project Code: TEC-926A **Collected:** 7/30/08 **14:15:00**
Project Name: OLD MCCALL LANDFILL MCCALL, ID **Matrix:** Solid
Project Officer: JOANNE LABAW **Sample Number:** 08304208
Account Code: 0809B10P402D43C1000ON00 **Type:** Matrix Spike
Station Description:

		Result	Units	Qlfr
GC				
Parameter	: Generic GC scan			Container ID : N1
Method	: 8081	Chlorinated Pesticides, SW 846		Analysis Date : 9/5/2008
Prep Method	: 3541	Automated soxhlet extraction		Prep Date :
Surrogate(s	: 57749	Chlordane (Tech)	85	%Rec
	2051243	Decachlorobiphenyl	87	%Rec
	877098	Tetrachlorometaxylene	107	%Rec
	8001352	Toxaphene	115	%Rec
Parameter	: Pesticides			Container ID : N1
Method	: 8081	Chlorinated Pesticides, SW 846		Analysis Date : 9/12/2008
Prep Method	: 3541	Automated soxhlet extraction		Prep Date :
Surrogate(s	: 309002	Aldrin	76	%Rec
	319846	Alpha-BHC	74	%Rec
	319857	Beta-BHC	80	%Rec
	5103719	cis-Chlordane (alpha-Chlordane)	78	%Rec
	2051243	Decachlorobiphenyl	88	%Rec
	319868	Delta-BHC	81	%Rec
	60571	Dieldrin	83	%Rec
	959988	Endosulfan I	78	%Rec
	33213659	Endosulfan II	78	%Rec
	1031078	Endosulfan Sulfate	81	%Rec
	72208	Endrin	132	%Rec
	7421934	Endrin Aldehyde	66	%Rec
	53494705	Endrin Ketone	80	%Rec
	5103742	Gamma-Chlordane	79	%Rec
	76448	Heptachlor	88	%Rec
	1024573	Heptachlor Epoxide	80	%Rec
	58899	Lindane	76	%Rec
	72435	Methoxychlor	110	%Rec
	72548	P,P'-DDD	91	%Rec
	72559	P,P'-DDE	86	%Rec
	50293	P,P'-DDT	93	%Rec
	877098	Tetrachlorometaxylene	65	%Rec

Manchester Environmental Laboratory
Report by Parameter for Project TEC-926A

Project Code: TEC-926A **Collected:** 7/30/08 **14:15:00**
Project Name: OLD MCCALL LANDFILL MCCALL, ID **Matrix:** Solid
Project Officer: JOANNE LABAW **Sample Number:** 08304208
Account Code: 0809B10P402D43C1000ON00 **Type:** Matrix Spike Dupl
Station Description:

		Result	Units	Qlfr
GC				
Parameter	: Generic GC scan			Container ID : N1
Method	: 8081	Chlorinated Pesticides, SW 846		Analysis Date : 9/5/2008
Prep Method	: 3541	Automated soxhlet extraction		Prep Date :
Surrogate(s)	57749 2051243 877098 8001352	Chlordane (Tech) Decachlorobiphenyl Tetrachlorometaxylene Toxaphene	87 87 107 120	%Rec %Rec %Rec %Rec
Parameter	: Pesticides			Container ID : N1
Method	: 8081	Chlorinated Pesticides, SW 846		Analysis Date : 9/12/2008
Prep Method	: 3541	Automated soxhlet extraction		Prep Date :
Surrogate(s)	309002 319846 319857 5103719 2051243 319868 60571 959988 33213659 1031078 72208 7421934 53494705 5103742 76448 1024573 58899 72435 72548 72559 50293 877098	Aldrin Alpha-BHC Beta-BHC cis-Chlordane (alpha-Chlordane) Decachlorobiphenyl Delta-BHC Dieldrin Endosulfan I Endosulfan II Endosulfan Sulfate Endrin Endrin Aldehyde Endrin Ketone Gamma-Chlordane Heptachlor Heptachlor Epoxide Lindane Methoxychlor P,P'-DDD P,P'-DDE P,P'-DDT Tetrachlorometaxylene	74 71 78 78 88 81 82 78 78 82 127 71 81 79 86 79 75 109 92 84 94 49	%Rec %Rec

Manchester Environmental Laboratory
Report by Parameter for Project TEC-926A

Project Code:	TEC-926A	Collected:	7/30/08	15:35:00
Project Name:	OLD MCCALL LANDFILL MCCALL, ID	Matrix:	Solid	
Project Officer:	JOANNE LABAW	Sample Number:	08304212	
Account Code:	0809B10P402D43C1000ON00	Type:	Reg sample	
Station Description:	MC07SB07			

		Result	Units	Qlfr
GC				
Parameter	: Generic GC scan			Container ID : N1
Method	: 8081	Chlorinated Pesticides, SW 846		Analysis Date : 9/5/2008
Prep Method	: 3541	Automated soxhlet extraction		Prep Date :
Analytes(s):	57749 8001352	Chlordane (Tech) Toxaphene	55 164	ug/Kg ug/Kg
Surrogate(s):	2051243 877098	Decachlorobiphenyl Tetrachlorometaxylene	85 77	%Rec %Rec
Parameter	: Pesticides			Container ID : N1
Method	: 8081	Chlorinated Pesticides, SW 846		Analysis Date : 9/12/2008
Prep Method	: 3541	Automated soxhlet extraction		Prep Date :
Analytes(s):	309002 319846 319857 5103719 319868 60571 959988 33213659 1031078 72208 7421934 53494705 5103742 76448 1024573 58899 72435 72548 72559 50293	Aldrin Alpha-BHC Beta-BHC cis-Chlordane (alpha-Chlordane) Delta-BHC Dieldrin Endosulfan I Endosulfan II Endosulfan Sulfate Endrin Endrin Aldehyde Endrin Ketone Gamma-Chlordane Heptachlor Heptachlor Epoxide Lindane Methoxychlor P,P'-DDD P,P'-DDE P,P'-DDT	5 1 5 5 5 5 5 5 5 5 5 5 5 5 5 5 9 29 49	ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg ug/Kg
Surrogate(s):	2051243 877098	Decachlorobiphenyl Tetrachlorometaxylene	98 81	%Rec %Rec

Manchester Environmental Laboratory
Report by Parameter for Project TEC-926A

Project Code:	TEC-926A	Collected:	7/31/08	10:05:00
Project Name:	OLD MCCALL LANDFILL MCCALL, ID	Matrix:	Solid	
Project Officer:	JOANNE LABAW	Sample Number:	08304220	
Account Code:	0809B10P402D43C1000ON00	Type:	Reg sample	
Station Description:	MC09SB06			

		Result	Units	Qlfr
GC				
Parameter	: Generic GC scan			Container ID : N1
Method	: 8081	Chlorinated Pesticides, SW 846		Analysis Date : 9/5/2008
Prep Method	: 3541	Automated soxhlet extraction		Prep Date :
Analytes(s):	57749	Chlordane (Tech)	59	ug/Kg U
	8001352	Toxaphene	178	ug/Kg U
Surrogate(s):	2051243	Decachlorobiphenyl	84	%Rec
	877098	Tetrachlorometaxylene	73	%Rec
Parameter	: Pesticides			Container ID : N1
Method	: 8081	Chlorinated Pesticides, SW 846		Analysis Date : 9/12/2008
Prep Method	: 3541	Automated soxhlet extraction		Prep Date :
Analytes(s):	309002	Aldrin	6	ug/Kg U
	319846	Alpha-BHC	6	ug/Kg U
	319857	Beta-BHC	6	ug/Kg U
	5103719	cis-Chlordane (alpha-Chlordane)	6	ug/Kg U
	319868	Delta-BHC	6	ug/Kg U
	60571	Dieldrin	6	ug/Kg U
	959988	Endosulfan I	6	ug/Kg U
	33213659	Endosulfan II	6	ug/Kg U
	1031078	Endosulfan Sulfate	6	ug/Kg U
	72208	Endrin	6	ug/Kg U
	7421934	Endrin Aldehyde	6	ug/Kg U
	53494705	Endrin Ketone	6	ug/Kg U
	5103742	Gamma-Chlordane	6	ug/Kg U
	76448	Heptachlor	6	ug/Kg U
	1024573	Heptachlor Epoxide	6	ug/Kg U
	58899	Lindane	6	ug/Kg U
	72435	Methoxychlor	6	ug/Kg U
	72548	P,P'-DDD	6	ug/Kg U
	72559	P,P'-DDE	1	ug/Kg J
	50293	P,P'-DDT	4	ug/Kg J
Surrogate(s):	2051243	Decachlorobiphenyl	95	%Rec
	877098	Tetrachlorometaxylene	73	%Rec

Manchester Environmental Laboratory
Report by Parameter for Project TEC-926A

Project Code:	TEC-926A	Collected:	
Project Name:	OLD MCCALL LANDFILL MCCALL, ID	Matrix:	Solid
Project Officer:	JOANNE LABAW	Sample Number:	OBS8218B1
Account Code:	0809B10P402D43C1000QN00	Type:	Blank
Station Description:			

		Result	Units	Qlfr
GC				
Parameter	: Generic GC scan			
Method	: 8081	Chlorinated Pesticides, SW 846		Container ID : N1
Prep Method	: 3541	Automated soxhlet extraction		Analysis Date : 9/5/2008
				Prep Date :
Analytes(s):	57749	Chlordane (Tech)	50	ug/Kg U
	8001352	Toxaphene	150	ug/Kg U
Surrogate(s):	2051243	Decachlorobiphenyl	94	%Rec
	877098	Tetrachlorometaxylene	52	%Rec
Parameter	: Pesticides			Container ID : N1
Method	: 8081	Chlorinated Pesticides, SW 846		Analysis Date : 9/12/2008
Prep Method	: 3541	Automated soxhlet extraction		Prep Date :
Analytes(s):	309002	Aldrin	5	ug/Kg U
	319846	Alpha-BHC	5	ug/Kg U
	319857	Beta-BHC	5	ug/Kg U
	5103719	cis-Chlordane (alpha-Chlordane)	5	ug/Kg U
	319868	Delta-BHC	5	ug/Kg U
	60571	Dieldrin	5	ug/Kg U
	959988	Endosulfan I	5	ug/Kg U
	33213659	Endosulfan II	5	ug/Kg U
	1031078	Endosulfan Sulfate	5	ug/Kg U
	72208	Endrin	5	ug/Kg U
	7421934	Endrin Aldehyde	5	ug/Kg U
	53494705	Endrin Ketone	5	ug/Kg U
	5103742	Gamma-Chlordane	5	ug/Kg U
	76448	Heptachlor	5	ug/Kg U
	1024573	Heptachlor Epoxide	5	ug/Kg U
	58899	Lindane	5	ug/Kg U
	72435	Methoxychlor	5	ug/Kg U
	72548	P,P'-DDD	5	ug/Kg U
	72559	P,P'-DDE	5	ug/Kg U
	50293	P,P'-DDT	5	ug/Kg U
Surrogate(s):	2051243	Decachlorobiphenyl	100	%Rec
	877098	Tetrachlorometaxylene	54	%Rec

Manchester Environmental Laboratory
Report by Parameter for Project TEC-926A

Project Code:	TEC-926A	Collected:	
Project Name:	OLD MCCALL LANDFILL MCCALL, ID	Matrix:	Solid
Project Officer:	JOANNE LABAW	Sample Number:	OBS8218B2
Account Code:	0809B10P402D43C1000ON00	Type:	Blank
Station Description:			

		Result	Units	Olfr
GC				
Parameter	: Pesticides			Container ID : N1
Method	: 8081	Chlorinated Pesticides, SW 846		Analysis Date : 9/12/2008
Prep Method	: 3541	Automated soxhlet extraction		Prep Date :
Analytes(s):				
309002	Aldrin	5	ug/Kg	U
319846	Alpha-BHC	5	ug/Kg	U
319857	Beta-BHC	5	ug/Kg	U
5103719	cis-Chlordane (alpha-Chlordane)	5	ug/Kg	U
319868	Delta-BHC	5	ug/Kg	U
60571	Dieldrin	5	ug/Kg	U
959988	Endosulfan I	5	ug/Kg	U
33213659	Endosulfan II	5	ug/Kg	U
1031078	Endosulfan Sulfate	5	ug/Kg	U
72208	Endrin	5	ug/Kg	U
7421934	Endrin Aldehyde	5	ug/Kg	U
53494705	Endrin Ketone	5	ug/Kg	U
5103742	Gamma-Chlordane	5	ug/Kg	U
76448	Heptachlor	.5	ug/Kg	U
1024573	Heptachlor Epoxide	5	ug/Kg	U
58899	Lindane	5	ug/Kg	U
72435	Methoxychlor	5	ug/Kg	U
72548	P,P'-DDD	5	ug/Kg	U
72559	P,P'-DDE	5	ug/Kg	U
50293	P,P'-DDT	5	ug/Kg	U
Surrogate(s):				
2051243	Decachlorobiphenyl	134	%Rec	
877098	Tetrachlorometaxylene	86	%Rec	

10/20/08

Manchester Environmental Laboratory
Report by Parameter for Project TEC-926A

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Project Code: TEC-926A **Collected:**
Project Name: OLD MCCALL LANDFILL MCCALL, ID **Matrix:** Solid
Project Officer: JOANNE LABAW **Sample Number:** OBS8218G1
Account Code: 0809B10P402D43C1000ON00 **Type:** LCS
Station Description:

		Result	Units	Qlfr
GC				
Parameter	: Generic GC scan			Container ID : N1
Method	: 8081	Chlorinated Pesticides, SW 846		Analysis Date : 9/5/2008
Prep Method	: 3541	Automated soxhlet extraction		Prep Date :
Surrogate(s	: 57749	Chlordane (Tech)	83	%Rec
	2051243	Decachlorobiphenyl	102	%Rec
	877098	Tetrachlorometaxylene	62	%Rec
	8001352	Toxaphene	119	%Rec

OBS8218G1 LCS

10/20/08

Manchester Environmental Laboratory
Report by Parameter for Project TEC-926A

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Project Code: TEC-926A **Collected:**
Project Name: OLD MCCALL LANDFILL MCCALL, ID **Matrix:** Solid
Project Officer: JOANNE LABAW **Sample Number:** OBS8218G2
Account Code: 0809B10P402D43C1000ON00 **Type:** LCSD
Station Description:

		Result	Units	Qlfr
GC				
Parameter	: Generic GC scan			Container ID : N1
Method	: 8081	Chlorinated Pesticides, SW 846		Analysis Date : 9/5/2008
Prep Method	: 3541	Automated soxhlet extraction		Prep Date :
Surrogate(s)	57749	Chlordane (Tech)	87	%Rec
	2051243	Decachlorobiphenyl	106	%Rec
	877098	Tetrachlorometaxylen	62	%Rec
	8001352	Toxaphene	124	%Rec

OBS8218G2 LCSD

10/20/08

Manchester Environmental Laboratory
Report by Parameter for Project TEC-926A

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Project Code: TEC-926A **Collected:**
Project Name: OLD MCCALL LANDFILL MCCALL, ID **Matrix:** Solid
Project Officer: JOANNE LABAW **Sample Number:** OBS8218G3
Account Code: 0809B10P402D43C1000ON00 **Type:** LCS#3
Station Description:

		Result	Units	Qlfr
GC				
Parameter	Generic GC scan			Container ID : N1
Method	: 8081	Chlorinated Pesticides, SW 846		Analysis Date : 9/5/2008
Prep Method	: 3541	Automated soxhlet extraction		Prep Date :
Surrogate(s:	57749	Chlordane (Tech)	87	%Rec
	2051243	Decachlorobiphenyl	107	%Rec
	877098	Tetrachlorometaxylene	53	%Rec
	8001352	Toxaphene	122	%Rec

OBS8218G3 LCS#3

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Manchester Environmental Laboratory
Report by Parameter for Project TEC-926A

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Project Code:	TEC-926A	Collected:	
Project Name:	OLD MCCALL LANDFILL MCCALL, ID	Matrix:	Solid
Project Officer:	JOANNE LABAW	Sample Number:	OBS8218G4
Account Code:	0809B10P402D43C1000ON00	Type:	LCS#4
Station Description:			

		Result	Units	Qlfr
GC				
Parameter	Generic GC scan			Container ID : N1
Method	8081	Chlorinated Pesticides, SW 846		Analysis Date : 9/5/2008
Prep Method	3541	Automated soxhlet extraction		Prep Date :
Surrogate(s)	57749 2051243 877098 8001352	Chlordane (Tech) Decachlorobiphenyl Tetrachlorometylène Toxaphene	88 108 68 123	%Rec %Rec %Rec %Rec

Manchester Environmental Laboratory
Report by Parameter for Project TEC-926A

Project Code:	TEC-926A	Collected:	
Project Name:	OLD MCCALL LANDFILL MCCALL, ID	Matrix:	Solid
Project Officer:	JOANNE LABAW	Sample Number:	OBS8218H1
Account Code:	0809B10P402D43C1000ON00	Type:	LCS
Station Description:			

		Result	Units	Qlfr
GC				
Parameter : Pesticides				Container ID : N1
Method : 8081	Chlorinated Pesticides, SW 846			Analysis Date : 9/12/2008
Prep Method : 3541	Automated soxhlet extraction			Prep Date :
Surrogate(s) : 309002	Aldrin	86	%Rec	
319846	Alpha-BHC	91	%Rec	
319857	Beta-BHC	94	%Rec	
5103719	cis-Chlordane (alpha-Chlordane)	99	%Rec	
2051243	Decachlorobiphenyl	133	%Rec	
319868	Delta-BHC	99	%Rec	
60571	Dieldrin	103	%Rec	
959988	Endosulfan I	98	%Rec	
33213659	Endosulfan II	98	%Rec	
1031078	Endosulfan Sulfate	101	%Rec	
72208	Endrin	140	%Rec	
7421934	Endrin Aldehyde	87	%Rec	
53494705	Endrin Ketone	100	%Rec	
5103742	Gamma-Chlordane	100	%Rec	
76448	Heptachlor	109	%Rec	
1024573	Heptachlor Epoxide	100	%Rec	
58899	Lindane	96	%Rec	
72435	Methoxychlor	127	%Rec	
72548	P,P'-DDD	109	%Rec	
72559	P,P'-DDE	100	%Rec	
50293	P,P'-DDT	116	%Rec	
877098	Tetrachlorometaxylene	69	%Rec	

10/20/08

Manchester Environmental Laboratory
Report by Parameter for Project TEC-926A

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Project Code:	TEC-926A	Collected:	
Project Name:	OLD MCCALL LANDFILL MCCALL, ID	Matrix:	Solid
Project Officer:	JOANNE LABAW	Sample Number:	OBS8218H2
Account Code:	0809B10P402D43C1000ON00	Type:	LCSD
Station Description:			

		Result	Units	Olfr
GC				
Parameter :	Pesticides			Container ID : N1
Method :	8081	Chlorinated Pesticides, SW 846		Analysis Date : 9/12/2008
Prep Method :	3541	Automated soxhlet extraction		Prep Date :
Surrogate(s:	309002	Aldrin	89	%Rec
	319846	Alpha-BHC	93	%Rec
	319857	Beta-BHC	92	%Rec
	5103719	cis-Chlordane (alpha-Chlordane)	96	%Rec
	2051243	Decachlorobiphenyl	125	%Rec
	319868	Delta-BHC	97	%Rec
	60571	Dieldrin	100	%Rec
	959988	Endosulfan I	95	%Rec
	33213659	Endosulfan II	95	%Rec
	1031078	Endosulfan Sulfate	98	%Rec
	72208	Endrin	137	%Rec
	7421934	Endrin Aldehyde	84	%Rec
	53494705	Endrin Ketone	97	%Rec
	5103742	Gamma-Chlordane	96	%Rec
	76448	Heptachlor	111	%Rec
	1024573	Heptachlor Epoxide	97	%Rec
	58899	Lindane	95	%Rec
	72435	Methoxychlor	123	%Rec
	72548	P,P'-DDD	105	%Rec
	72559	P,P'-DDE	97	%Rec
	50293	P,P'-DDT	115	%Rec
	877098	Tetrachlorometaxylene	61	%Rec

OBS8218H2 LCSD

Manchester Environmental Laboratory
Report by Parameter for Project TEC-926A

Project Code:	TEC-926A	Collected:	
Project Name:	OLD MCCALL LANDFILL MCCALL, ID	Matrix:	Solid
Project Officer:	JOANNE LABAW	Sample Number:	OBS8218H3
Account Code:	0809B10P402D43C1000ON00	Type:	LCS#3
Station Description:			

		Result	Units	Qlfr
GC				
Parameter :	Pesticides			Container ID : N1
Method :	8081	Chlorinated Pesticides, SW 846		Analysis Date : 9/12/2008
Prep Method :	3541	Automated soxhlet extraction		Prep Date :
Surrogate(s :	309002	Aldrin	76	%Rec
	319846	Alpha-BHC	82	%Rec
	319857	Beta-BHC	87	%Rec
	5103719	cis-Chlordane (alpha-Chlordane)	92	%Rec
	2051243	Decachlorobiphenyl	122	%Rec
	319868	Delta-BHC	93	%Rec
	60571	Dieldrin	97	%Rec
	959988	Endosulfan I	91	%Rec
	33213659	Endosulfan II	91	%Rec
	1031078	Endosulfan Sulfate	94	%Rec
	72208	Endrin	133	%Rec
	7421934	Endrin Aldehyde	81	%Rec
	53494705	Endrin Ketone	94	%Rec
	5103742	Gamma-Chlordane	93	%Rec
	76448	Heptachlor	100	%Rec
	1024573	Heptachlor Epoxide	93	%Rec
	58899	Lindane	88	%Rec
	72435	Methoxychlor	122	%Rec
	72548	P,P'-DDD	102	%Rec
	72559	P,P'-DDE	94	%Rec
	50293	P,P'-DDT	113	%Rec
	877098	Tetrachlorometaxylene	48	%Rec

Manchester Environmental Laboratory
Report by Parameter for Project TEC-926A

Project Code:	TEC-926A	Collected:	
Project Name:	OLD MCCALL LANDFILL MCCALL, ID	Matrix:	Solid
Project Officer:	JOANNE LABAW	Sample Number:	OBS8218H4
Account Code:	0809B10P402D43C1000ON00	Type:	LCS#4
Station Description:			

		Result	Units	Qlfr
GC				
Parameter	: Pesticides			Container ID : N1
Method	: 8081	Chlorinated Pesticides, SW 846		Analysis Date : 9/12/2008
Prep Method	: 3541	Automated soxhlet extraction		Prep Date :
Surrogate(s)				
309002	Aldrin	80	%Rec	
319846	Alpha-BHC	86	%Rec	
319857	Beta-BHC	85	%Rec	
5103719	cis-Chlordane (alpha-Chlordane)	91	%Rec	
2051243	Decachlorobiphenyl	123	%Rec	
319868	Delta-BHC	92	%Rec	
60571	Dieldrin	95	%Rec	
959988	Endosulfan I	89	%Rec	
33213659	Endosulfan II	89	%Rec	
1031078	Endosulfan Sulfate	90	%Rec	
72208	Endrin	131	%Rec	
7421934	Endrin Aldehyde	77	%Rec	
53494705	Endrin Ketone	90	%Rec	
5103742	Gamma-Chlordane	92	%Rec	
76448	Heptachlor	104	%Rec	
1024573	Heptachlor Epoxide	92	%Rec	
58899	Lindane	89	%Rec	
72435	Methoxychlor	117	%Rec	
72548	P,P'-DDD	102	%Rec	
72559	P,P'-DDE	93	%Rec	
50293	P,P'-DDT	111	%Rec	
877098	Tetrachlorometaxylene	45	%Rec	



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MEMORANDUM

DATE: September 26, 2008

TO: Linda Costello, Project Manager, E & E, Seattle, Washington

FROM: Mark Woodke, START-3 Chemist, E & E, Seattle, Washington *MW*

SUBJ: **Organic Data Summary Check, McCall Old City Dump Site,
McCall, Idaho**

REF: TDD: 07-03-0007 PAN: 002233.0192.01BR

The data summary check of 5 soil samples collected from the McCall Old City Dump site in McCall, Idaho, has been completed. TCLP SVOC analysis (modified EPA Method 8270) was performed by Manchester Environmental Laboratory, Port Orchard, Washington.

The samples were numbered:

08304201 08304203 08304208 08304212 08304220

No discrepancies were noted. The bias qualifier "Q" was added to positive sample results less than the sample quantitation limit.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 10 LABORATORY
7411 Beach Dr. East
Port Orchard, Washington 98366

MEMORANDUM

SUBJECT: Data Release for TCLP Semivolatiles Analysis Results from the USEPA Region 10 Laboratory

PROJECT NAME: Old McCall Landfill

PROJECT CODE: TEC-926A

FROM: Gerald Dodo, Chemistry Supervisor
Office of Environmental Assessment
USEPA Region 10 Laboratory

TO: Joanne Labaw, Task Monitor
Office of Environmental Cleanup
USEPA Region 10

CC: Renee Nordeen
Ecology and Environment

I have authorized release of this data package. Attached you will find the semivolatile analysis results for the Old McCall Landfill samples received on 08/04/08. For further information regarding the attached data, contact Steve Reimer at 360-871-8718. For the schedule of the remaining analyses, please contact me at 360-871-8728.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 10 LABORATORY
7411 Beach Dr. East
Port Orchard, Washington 98366

QUALITY ASSURANCE MEMORANDUM
FOR ORGANIC CHEMICAL ANALYSES

DATE: September 2, 2008

To: Joanne Labaw, Task Monitor
Office of Environmental Cleanup, USEPA Region 10

FROM: Steven Reimer, Chemist
Office of Environmental Assessment, USEPA Region 10

SUBJECT: Quality Assurance Review of Old McCall Landfill
For: TCLP Semivolatile Analysis
Project Code: TEC-926A
Account Code: 0809B10P402D43C1000ON00

CC: Renee Nordeen,
Ecology and Environment

The following is a quality assurance review of the TCLP semivolatile analysis of 5 soil samples from the Old McCall Landfill Project. The analyses were performed by EPA chemists at the US EPA Region 10 Laboratory in Port Orchard, WA, using modified methods SW-846 3510, 3511 and 8270D.

This review was conducted for the following samples:

08304201 08304203 08304208 08304212 08304220

1. Data Qualifications

Comments below refer to the quality control specifications outlined in the Laboratory's current Quality Assurance Manual, Standard Operating Procedures (SOPs) and the Quality Assurance Project Plan (QAPP). The requested analysis was for TCLP semivolatiles. As allowed in the method, analysis for total concentration of the regulated analytes was done to determine if leaching was required. As part of this a new extraction method for pyridine was introduced based on SW-846 method 8211, an SOP has yet to be approved for this analysis. For the remaining analytes, no

excursions were required from the method Standard Operating Procedure.

The quality control measures which did not meet Laboratory/QAPP criteria are annotated in the title of each affected subsection with "Laboratory/QAPP Criteria Not Met"

For those tests for which the USEPA Region 10 Laboratory has been accredited by the National Environmental Laboratory Accreditation Conference (NELAC), all requirements of the current NELAC Standard have been met. The Region 10 Laboratory's Quality System has been accredited to the standards of the National Environmental Laboratory Accreditation Conference (NELAC).

2. Sample Transport and Receipt

Upon sample receipt, no conditions were noted that would affect data quality for this project

3. Sample Holding Times

The concentration of an analyte in a sample or extract of a sample may increase or decrease over time depending on the nature of the analyte. For this reason, holding time limits are recommended for samples and extracts. The samples and extracts covered by this review met method holding time recommendations

4. Sample Preparation

Except as noted in Section 1 above, samples were prepared according to the method outlined in the SOP for these analytes for this type of matrix. No qualification of the data was required based on sample preparation.

5. Initial Calibration and Calibration Verification

The calibration functions generated for the initial calibration met SOP criteria. The Minimum Reporting Level (MRL) is the lowest point for which the calculated value tests within laboratory specified criteria. All calibration verification checks met the frequency and recovery criteria on the day of analysis. No qualification was required based on calibration or calibration verification. The initial calibration checked against the second source resulted in percent differences from the expected values of $\leq 30\%$ for all compounds.

6. Laboratory Control Samples

Data for laboratory control samples are generated to provide information on the accuracy of the analytical method and the laboratory performance. Two sets of spiked soil blank analysis pairs were generated and analyzed for pyridine at two different levels. Both sets met expected criteria. The LCS for the remaining TCLP analytes met criteria.

The continuing calibration check met the criteria for frequency of analysis and relative retention time (RRT) windows for all target and surrogate compounds.

The RRFs were >0.05, and the percent accuracies were 80-120% of the true values.

7. Blank Analysis

The method blanks did not contain detectable levels of analytes which would require data qualification.

8. Surrogate Spikes

All surrogate recoveries met SOP recovery criteria with the exception of the blank for pyridine analysis. No pyridine was detected in any sample. No qualification is required.

9. Internal Standards

All internal standards met instrument response criteria.

10. Matrix Spike/Matrix Spike Duplicate Analysis -Laboratory/QAPP Criteria Not Met

Duplicate matrix spikes were prepared on replicates of sample 08304208 and generally met precision and recovery criteria for soil matrix spikes. Pentachlorophenol was outside of recovery and % relative standard deviation criteria. This compound was not present in any sample and the reporting limits were not adjusted.

11. Compound Quantitation

All results for analytes that are not detected are assigned the value of the MRL and the 'U' qualifier is attached. The results for analytes which are detected below the MRL and above the Minimum Detection Limit (MDL) are reported with a 'J' qualifier attached.

All manual integrations have been reviewed and found to comply with acceptable integration practices.

No TCLP analytes were detected at an order of magnitude below TCLP limits.

12. Identification

The RRTs for all detected target compounds were within acceptable limits of the initial or continuing calibration standards. Criteria were met for mass spectral ion matching and ion abundance matching or were judged acceptable.

13. Data Qualifiers

Below are the definitions for the codes used when qualifying data from these analyses. When more

than one quality issue was involved, the most restrictive qualifier has been attached to the data.

- U - The analyte was not detected at or above the reported value.
- J - The identification of the analyte is acceptable; however the reported value is an estimate.
- UJ - The analyte was not detected at or above the reported value. The reported value is an estimate.

The usefulness of qualified data should be treated according to the severity of the qualifier in light of the project's data quality objectives. Should questions arise regarding the data, contact Steven Reimer at the Region 10 Laboratory, phone number (360)871-8718.

Definitions

Accuracy - the degree of conformity of a measured or calculated quantity to its actual value.

Duplicate Analysis - when a duplicate of a sample (DS), a matrix spike (MSD), or a laboratory control sample (LCSD) is analyzed, it is possible to use the comparison of the results in terms of relative percent difference (RPD) to calculate precision.

Internal standards - Compounds used to help evaluate instrument analytical performance for individual samples. Internal standards provide an instrument response for reference to accurately quantify the analytes for all associated instrumental analyses.

Laboratory Control Sample (LCS) - a clean matrix spiked with known quantities of analytes. The LCS is processed with samples through every step of preparation and analysis. Measuring percent recovery of each analyte in the LCS provides a measurement of accuracy for the analyte in the project samples. A laboratory control sample is prepared and analyzed at a frequency no less than one for every 20 project samples.

Matrix Spike/Matrix Spike Duplicate (MS/MSD) - Sample analyses performed to provide information about the effect of the sample matrix on analyte recovery and measurement within the project samples. To create the MS/MSD, a project sample is spiked with known quantities of analytes and the percent recovery of the analytes are determined.

Method Blank- An analytical control that is carried through the entire analytical procedure. The method blank is used to define the level of laboratory background and reagent contamination. A method blank is prepared and analyzed for every batch of samples at a minimum frequency of one per every 20 samples. To produce unqualified data, the result of the method blank analysis is required to be less than the MRL and less than 5 times the amount of analyte found in any project sample.

Minimum Reporting Level (MRL) - the smallest measured concentration of a substance that can be reliably measured using a given analytical method.

Peak Integrations - The output of many analytical instruments is a peak which represents the quantity of analyte in the sample. The instrument automatically integrates the peak area to provide the concentration of the analyte; however, sometimes these peaks need to be manually integrated by the analyst.

Precision – the degree of mutual agreement or repeatability among a series of individual results.

Reference materials – Samples with analyte values that are homogeneous and well established. This allows the reference material to be used to assess the accuracy of the measurement method.

Relative Percent Difference – The difference between two sample results divided by their mean and expressed as a percentage.

Surrogate Spikes - usually isotopically labeled versions of analytes of concern or compounds not typically found in the environment. They are used to help evaluate laboratory preparation and analysis performance for individual samples. The surrogate spike differs from the LCS (above) in that it is placed in each project sample to assess preparation and analytical efficiency.

9/25/08

Manchester Environmental Laboratory
Report by Parameter for Project TEC-926A

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Project Code:	TEC-926A	Collected:	7/30/08	10:05:00
Project Name:	OLD MCCALL LANDFILL MCCALL, ID	Matrix:	Solid	
Project Officer:	JOANNE LABAW	Sample Number:	08304201	
Account Code:	0809B10P402D43C1000ON00	Type:	Reg sample	
Station Description:	MC01SB12			

		Result	Units	Qlfr	
GCMS					
Parameter	Semi-volatiles			Container ID : N2	
Method	8270D	Semivolatiles by GC/MS		Analysis Date : 8/13/2008	
Prep Method	3541	Automated soxhlet extraction		Prep Date : 8/8/2008	
Analytes(s):	95954 88062 121142 106445 106467 118741 87683 67721 98953 87865 95487	2,4,5-Trichlorophenol 2,4,6-Trichlorophenol 2,4-Dinitrotoluene 4-Methylphenol Benzene, 1,4-dichloro- Hexachlorobenzene Hexachlorobutadiene Hexachloroethane Nitrobenzene Pentachlorophenol Phenol, 2-methyl-	114 57 57 11 57 57 57 57 57 114 9.1	ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg	U U U J Q U U U U U U J Q
Surrogate(s):	321608 2199691 93951736 1718521 4165600 367124 4165622 1718510	1,1'-Biphenyl, 2-fluoro- 1,2-Dichlorobenzene-d4 2-chlorophenol-d4 D10-Pyrene Nitrobenzene-d5 Phenol, 2-fluoro- Phenol-d5 Terphenyl-d14	97 86 99 114 106 103 105 111	%Rec %Rec %Rec %Rec %Rec %Rec %Rec %Rec	

08304201 Reg sample

9/25/08

Manchester Environmental Laboratory
Report by Parameter for Project TEC-926A

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Project Code:	TEC-926A	Collected:	7/30/08	11:45:00
Project Name:	OLD MCCALL LANDFILL MCCALL, ID	Matrix:	Solid	
Project Officer:	JOANNE LABAW	Sample Number:	08304203	
Account Code:	0809B10P402D43C1000ON00	Type:	Reg sample	
Station Description:	MC03SB12			

		Result	Units	Qlfr
GCMS				
Parameter	Semi-volatiles			Container ID : N2
Method	8270D	Semivolatiles by GC/MS		Analysis Date : 8/13/2008
Prep Method	3541	Automated soxhlet extraction		Prep Date : 8/8/2008
Analytes(s):	95954	2,4,5-Trichlorophenol	113	ug/kg U
	88062	2,4,6-Trichlorophenol	56	ug/kg U
	121142	2,4-Dinitrotoluene	56	ug/kg U
	106445	4-Methylphenol	56	ug/kg U
	106467	Benzene, 1,4-dichloro-	17	ug/kg J Q
	118741	Hexachlorobenzene	56	ug/kg U
	87683	Hexachlorobutadiene	56	ug/kg U
	67721	Hexachloroethane	56	ug/kg U
	98953	Nitrobenzene	56	ug/kg U
	87865	Pentachlorophenol	113	ug/kg U
	95487	Phenol, 2-methyl-	56	ug/kg U
Surrogate(s):	321608	1,1'-Biphenyl, 2-fluoro-	101	%Rec
	2199691	1,2-Dichlorobenzene-d4	92	%Rec
	93951736	2-chlorophenol-d4	104	%Rec
	1718521	D10-Pyrene	117	%Rec
	4165600	Nitrobenzene-d5	112	%Rec
	367124	Phenol, 2-fluoro-	106	%Rec
	4165622	Phenol-d5	111	%Rec
	1718510	Terphenyl-d14	114	%Rec

08304203 Reg sample

Manchester Environmental Laboratory
Report by Parameter for Project TEC-926A

Project Code:	TEC-926A	Collected:	7/30/08	14:15:00
Project Name:	OLD MCCALL LANDFILL MCCALL, ID	Matrix:	Solid	
Project Officer:	JOANNE LABAW	Sample Number:	08304208	
Account Code:	0809B10P402D43C1000ON00	Type:	Reg sample	
Station Description:	MC05SB08			

			Result	Units	Qlfr
GCMS					
Parameter	: Semi-volatiles				Container ID : N2
Method	: 8270D	Semivolatiles by GC/MS			Analysis Date : 8/13/2008
Prep Method	: 3541	Automated soxhlet extraction			Prep Date : 8/8/2008
Analytes(s):	95954	2,4,5-Trichlorophenol	98	ug/kg	U
	88062	2,4,6-Trichlorophenol	49	ug/kg	U
	121142	2,4-Dinitrotoluene	49	ug/kg	U
	106445	4-Methylphenol	49	ug/kg	U
	106467	Benzene, 1,4-dichloro-	49	ug/kg	U
	118741	Hexachlorobenzene	49	ug/kg	U
	87683	Hexachlorobutadiene	49	ug/kg	U
	67721	Hexachloroethane	49	ug/kg	U
	98953	Nitrobenzene	49	ug/kg	U
	87865	Pentachlorophenol	98	ug/kg	U
	95487	Phenol, 2-methyl-	49	ug/kg	U
Surrogate(s):	321608	1,1'-Biphenyl, 2-fluoro-	98	%Rec	
	2199691	1,2-Dichlorobenzene-d4	91	%Rec	
	93951736	2-chlorophenol-d4	102	%Rec	
	1718521	D10-Pyrene	115	%Rec	
	4165600	Nitrobenzene-d5	110	%Rec	
	367124	Phenol, 2-fluoro-	105	%Rec	
	4165622	Phenol-d5	108	%Rec	
	1718510	Terphenyl-d14	112	%Rec	

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Manchester Environmental Laboratory
Report by Parameter for Project TEC-926A

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Project Code:	TEC-926A	Collected:	7/30/08	14:15:00
Project Name:	OLD MCCALL LANDFILL MCCALL, ID	Matrix:	Solid	
Project Officer:	JOANNE LABAW	Sample Number:	08304208	
Account Code:	0809B10P402D43C1000ON00	Type:	Matrix Spike	
Station Description:				

		Result	Units	Qlfr
GCMS				
Parameter	Semi-volatiles			Container ID : N2
Method	8270D	Semivolatiles by GC/MS		Analysis Date : 8/13/2008
Prep Method	3541	Automated soxhlet extraction		Prep Date : 8/8/2008
Surrogate(s :	321608	1,1'-Biphenyl, 2-fluoro-	81	%Rec
	2199691	1,2-Dichlorobenzene-d4	73	%Rec
	95954	2,4,5-Trichlorophenol	67	%Rec
	88062	2,4,6-Trichlorophenol	66	%Rec
	121142	2,4-Dinitrotoluene	78	%Rec
	93951736	2-chlorophenol-d4	82	%Rec
	106445	4-Methylphenol	79	%Rec
	106467	Benzene, 1,4-dichloro-	68	%Rec
	1718521	D10-Pyrene	94	%Rec
	118741	Hexachlorobenzene	68	%Rec
	87683	Hexachlorobutadiene	65	%Rec
	67721	Hexachloroethane	70	%Rec
	98953	Nitrobenzene	80	%Rec
	4165600	Nitrobenzene-d5	89	%Rec
	87865	Pentachlorophenol	38	%Rec
	367124	Phenol, 2-fluoro-	84	%Rec
	95487	Phenol, 2-methyl-	77	%Rec
	4165622	Phenol-d5	87	%Rec
	1718510	Terphenyl-d14	91	%Rec

9/25/08

Manchester Environmental Laboratory
Report by Parameter for Project TEC-926A

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Project Code:	TEC-926A	Collected:	7/30/08	14:15:00
Project Name:	OLD MCCALL LANDFILL MCCALL, ID	Matrix:	Solid	
Project Officer:	JOANNE LABAW	Sample Number:	08304208	
Account Code:	0809B10P402D43C1000ON00	Type:	Matrix Spike Dupl	
Station Description:				

		Result	Units	Qlfr
GCMS				
Parameter	Semi-volatiles			Container ID : N2
Method	8270D	Semivolatiles by GC/MS		Analysis Date : 8/13/2008
Prep Method	3541	Automated soxhlet extraction		Prep Date : 8/8/2008
Surrogate(s)				
321608	1,1'-Biphenyl, 2-fluoro-	101	%Rec	
2199691	1,2-Dichlorobenzene-d4	93	%Rec	
95954	2,4,5-Trichlorophenol	87	%Rec	
88062	2,4,6-Trichlorophenol	86	%Rec	
121142	2,4-Dinitrotoluene	97	%Rec	
93951736	2-chlorophenol-d4	103	%Rec	
106445	4-Methylphenol	100	%Rec	
106467	Benzene, 1,4-dichloro-	86	%Rec	
1718521	D10-Pyrene	113	%Rec	
118741	Hexachlorobenzene	85	%Rec	
87683	Hexachlorobutadiene	83	%Rec	
67721	Hexachloroethane	89	%Rec	
98953	Nitrobenzene	102	%Rec	
4165600	Nitrobenzene-d5	111	%Rec	
87865	Pentachlorophenol	61	%Rec	
367124	Phenol, 2-fluoro-	107	%Rec	
95487	Phenol, 2-methyl-	100	%Rec	
4165622	Phenol-d5	110	%Rec	
1718510	Terphenyl-d14	111	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-926A

Project Code:	TEC-926A	Collected:	7/30/08	15:35:00
Project Name:	OLD MCCALL LANDFILL MCCALL, ID	Matrix:	Solid	
Project Officer:	JOANNE LABAW	Sample Number:	08304212	
Account Code:	0809B10P402D43C1000ON00	Type:	Reg sample	
Station Description:	MC07SB07			

		Result	Units	Olfr
GCMS				
Parameter	Semi-volatiles			Container ID : N2
Method	8270D	Semivolatiles by GC/MS		Analysis Date : 8/13/2008
Prep Method	3541	Automated soxhlet extraction		Prep Date : 8/8/2008
Analytes(s):	95954	2,4,5-Trichlorophenol	102	ug/kg U
	88062	2,4,6-Trichlorophenol	51	ug/kg U
	121142	2,4-Dinitrotoluene	51	ug/kg U
	106445	4-Methylphenol	51	ug/kg U
	106467	Benzene, 1,4-dichloro-	51	ug/kg U
	118741	Hexachlorobenzene	51	ug/kg U
	87683	Hexachlorobutadiene	51	ug/kg U
	67721	Hexachloroethane	51	ug/kg U
	98953	Nitrobenzene	51	ug/kg U
	87865	Pentachlorophenol	102	ug/kg U
	95487	Phenol, 2-methyl-	51	ug/kg U
Surrogate(s):	321608	1,1'-Biphenyl, 2-fluoro-	86	%Rec
	2199691	1,2-Dichlorobenzene-d4	79	%Rec
	93951736	2-chlorophenol-d4	89	%Rec
	1718521	D10-Pyrene	101	%Rec
	4165600	Nitrobenzene-d5	96	%Rec
	367124	Phenol, 2-fluoro-	90	%Rec
	4165622	Phenol-d5	93	%Rec
	1718510	Terphenyl-d14	99	%Rec

Manchester Environmental Laboratory
Report by Parameter for Project TEC-926A

Project Code:	TEC-926A	Collected:	7/31/08	10:05:00
Project Name:	OLD MCCALL LANDFILL MCCALL, ID	Matrix:	Solid	
Project Officer:	JOANNE LABAW	Sample Number:	08304220	
Account Code:	0809B10P402D43C1000ON00	Type:	Reg sample	
Station Description:	MC09SB06			

		Result	Units	Qlfr	
GCMS					
Parameter	Semi-volatiles			Container ID : N2	
Method	8270D	Semivolatiles by GC/MS		Analysis Date : 8/13/2008	
Prep Method	3541	Automated soxhlet extraction		Prep Date : 8/8/2008	
Analytes(s):	95954 88062 121142 106445 106467 118741 87683 67721 98953 87865 95487	2,4,5-Trichlorophenol 2,4,6-Trichlorophenol 2,4-Dinitrotoluene 4-Methylphenol Benzene, 1,4-dichloro- Hexachlorobenzene Hexachlorobutadiene Hexachloroethane Nitrobenzene Pentachlorophenol Phenol, 2-methyl-	113 56 56 56 56 56 56 56 56 113 56	ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg	U U U U U U U U U U
Surrogate(s):	321608 2199691 93951736 1718521 4165600 367124 4165622 1718510	1,1'-Biphenyl, 2-fluoro- 1,2-Dichlorobenzene-d4 2-chlorophenol-d4 D10-Pyrene Nitrobenzene-d5 Phenol, 2-fluoro- Phenol-d5 Terphenyl-d14	101 96 107 117 114 109 112 113	%Rec %Rec %Rec %Rec %Rec %Rec %Rec %Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-926A

Project Code:	TEC-926A	Collected:	
Project Name:	OLD MCCALL LANDFILL MCCALL, ID	Matrix:	Solid
Project Officer:	JOANNE LABAW	Sample Number:	OBS8221B1
Account Code:	0809B10P402D43C1000ON00	Type:	Blank
Station Description:			

		Result	Units	Qlfr
GCMS				
Parameter	: Semi-volatiles			Container ID : N2
Method	: 8270D	Semivolatiles by GC/MS		Analysis Date : 8/13/2008
Prep Method	: 3541	Automated soxhlet extraction		Prep Date : 8/8/2008
Analytes(s) :	95954	2,4,5-Trichlorophenol	125	ug/kg
	88062	2,4,6-Trichlorophenol	63	ug/kg
	121142	2,4-Dinitrotoluene	63	ug/kg
	106445	4-Methylphenol	63	ug/kg
	106467	Benzene, 1,4-dichloro-	63	ug/kg
	118741	Hexachlorobenzene	63	ug/kg
	87683	Hexachlorobutadiene	63	ug/kg
	67721	Hexachloroethane	63	ug/kg
	98953	Nitrobenzene	63	ug/kg
	87865	Pentachlorophenol	125	ug/kg
	95487	Phenol, 2-methyl-	63	ug/kg
Surrogate(s) :	321608	1,1'-Biphenyl, 2-fluoro-	102	%Rec
	2199691	1,2-Dichlorobenzene-d4	95	%Rec
	93951736	2-chlorophenol-d4	103	%Rec
	1718521	D10-Pyrene	121	%Rec
	4165600	Nitrobenzene-d5	112	%Rec
	367124	Phenol, 2-fluoro-	106	%Rec
	4165622	Phenol-d5	110	%Rec
	1718510	Terphenyl-d14	120	%Rec

OBS8221B1 Blank

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Manchester Environmental Laboratory
Report by Parameter for Project TEC-926A

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Project Code:	TEC-926A	Collected:	
Project Name:	OLD MCCALL LANDFILL MCCALL, ID	Matrix:	Solid
Project Officer:	JOANNE LABAW	Sample Number:	OBS8221B2
Account Code:	0809B10P402D43C1000ON00	Type:	Blank
Station Description:			

		Result	Units	Qlfr	
GCMS					
Parameter	Semi-volatiles			Container ID : N2	
Method	8270D	Semivolatiles by GC/MS		Analysis Date : 8/13/2008	
Prep Method	3541	Automated soxhlet extraction		Prep Date : 8/8/2008	
Analytes(s):	95954 88062 121142 106445 106467 118741 87683 67721 98953 87865 95487	2,4,5-Trichlorophenol 2,4,6-Trichlorophenol 2,4-Dinitrotoluene 4-Methylphenol Benzene, 1,4-dichloro- Hexachlorobenzene Hexachlorobutadiene Hexachloroethane Nitrobenzene Pentachlorophenol Phenol, 2-methyl-	125 63 63 63 63 63 63 63 63 125 63	ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg	U U U U U U U U U
Surrogate(s):	321608 2199691 93951736 1718521 4165600 367124 4165622 1718510	1,1'-Biphenyl, 2-fluoro- 1,2-Dichlorobenzene-d4 2-chlorophenol-d4 D10-Pyrene Nitrobenzene-d5 Phenol, 2-fluoro- Phenol-d5 Terphenyl-d14	96 80 96 113 105 96 101 110	%Rec %Rec %Rec %Rec %Rec %Rec %Rec %Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-926A

Project Code:	TEC-926A	Collected:	
Project Name:	OLD MCCALL LANDFILL MCCALL, ID	Matrix:	Solid
Project Officer:	JOANNE LABAW	Sample Number:	OBS8221F1
Account Code:	0809B10P402D43C1000ON00	Type:	LCS
Station Description:			

		Result	Units	Olfr
GCMS				
Parameter	Semi-volatiles			Container ID : 0
Method	8270D	Semivolatiles by GC/MS		Analysis Date : 8/13/2008
Prep Method	3541	Automated soxhlet extraction		Prep Date : 8/8/2008
Surrogate(s :	321608	1,1'-Biphenyl, 2-fluoro-	96	%Rec
	2199691	1,2-Dichlorobenzene-d4	89	%Rec
	95954	2,4,5-Trichlorophenol	82	%Rec
	88062	2,4,6-Trichlorophenol	80	%Rec
	121142	2,4-Dinitrotoluene	93	%Rec
	93951736	2-chlorophenol-d4	100	%Rec
	106445	4-Methylphenol	94	%Rec
	106467	Benzene, 1,4-dichloro-	83	%Rec
	1718521	D10-Pyrene	111	%Rec
	118741	Hexachlorobenzene	84	%Rec
	87683	Hexachlorobutadiene	81	%Rec
	67721	Hexachloroethane	87	%Rec
	98953	Nitrobenzene	98	%Rec
	4165600	Nitrobenzene-d5	108	%Rec
	87865	Pentachlorophenol	73	%Rec
	367124	Phenol, 2-fluoro-	101	%Rec
	95487	Phenol, 2-methyl-	93	%Rec
	4165622	Phenol-d5	103	%Rec
	1718510	Terphenyl-d14	108	%Rec

9/25/08

Manchester Environmental Laboratory
Report by Parameter for Project TEC-926A

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Project Code:	TEC-926A	Collected:	
Project Name:	OLD MCCALL LANDFILL MCCALL, ID	Matrix:	Solid
Project Officer:	JOANNE LABAW	Sample Number:	OBS8221F2
Account Code:	0809B10P402D43C1000ON00	Type:	LCSD
Station Description:			

		Result	Units	Qlfr
GCMS				
Parameter	: Semi-volatiles			Container ID : 0
Method	: 8270D	Semivolatiles by GC/MS		Analysis Date : 8/13/2008
Prep Method	: 3541	Automated soxhlet extraction		Prep Date : 8/8/2008
Surrogate(s)				
321608	1,1'-Biphenyl, 2-fluoro-	97	%Rec	
2199691	1,2-Dichlorobenzene-d4	88	%Rec	
95954	2,4,5-Trichlorophenol	82	%Rec	
88062	2,4,6-Trichlorophenol	80	%Rec	
121142	2,4-Dinitrotoluene	94	%Rec	
93951736	2-chlorophenol-d4	99	%Rec	
106445	4-Methylphenol	96	%Rec	
106467	Benzene, 1,4-dichloro-	82	%Rec	
1718521	D10-Pyrene	109	%Rec	
118741	Hexachlorobenzene	83	%Rec	
87683	Hexachlorobutadiene	80	%Rec	
67721	Hexachloroethane	86	%Rec	
98953	Nitrobenzene	98	%Rec	
4165600	Nitrobenzene-d5	107	%Rec	
87865	Pentachlorophenol	71	%Rec	
367124	Phenol, 2-fluoro-	101	%Rec	
95487	Phenol, 2-methyl-	94	%Rec	
4165622	Phenol-d5	105	%Rec	
1718510	Terphenyl-d14	106	%Rec	

OBS8221F2 LCSD



ecology and environment, inc.

International Specialists in the Environment

720 Third Ave., Ste. 1700
Seattle, Washington 98104
Tel: (206) 624-9537, Fax: (206) 721-9832

MEMORANDUM

DATE: November 10, 2008
TO: Linda Costello, Project Manager, E & E, Seattle, Washington
FROM: Mark Woodke, START-3 Chemist, E & E, Seattle, Washington M
SUBJ: Inorganic Data Summary Check, McCall – Old City Dump Site,
McCall, Idaho
REF: TDD: 07-03-0007 **PAN:** 002233.0192.01BR

The data summary check of 5 soil samples collected from the McCall - Old City Dump site in McCall, Idaho, has been completed. Toxicity Characteristic Leaching Procedure (TCLP) metals analyses (EPA methods 1311 and 6010) were performed by the Manchester Environmental Laboratory, Port Orchard, Washington.

The samples were numbered:

08304201 08304203 08304208 08304212 08304220

No discrepancies were noted.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 10 LABORATORY
7411 Beach Dr. East
Port Orchard, Washington 98366

MEMORANDUM

SUBJECT: Data Release for Metals Results from the USEPA Region 10 Laboratory

PROJECT NAME: Old McCall Landfill

PROJECT CODE: TEC-926A

FROM: Gerald Dodo, Chemistry Supervisor
Office of Environmental Assessment
USEPA Region 10 Laboratory

TO: Joanne Labaw, Project Manager
Office of Environmental Cleanup, Assessment and
Brownfields Unit 1
USEPA Region 10

CC: Renee Nordeen, Ecology and Environment

I have authorized release of this data package. Attached you will find the TCLP metals for the Old McCall Landfill project for the samples collected 07/29/2008 to 07/31/2008. This is the last of the data associated with this project code. For further information regarding the attached data, contact Katie Adams at 360-871-8748.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 10 LABORATORY
7411 Beach Dr. East
Port Orchard, Washington 98366

QUALITY ASSURANCE MEMORANDUM
FOR INORGANIC CHEMICAL ANALYSES

DATE: November 5, 2008

TO: Joanne Labaw, Project Manager
Office of Environmental Cleanup, Assessment and Brownfields Unit 1, US EPA Region 10

From: Melissa Billings, Chemist
Office of Environmental Assessment, US EPA Region 10 Laboratory

SUBJECT: Quality Assurance Review of Old McCall Landfill
For TCLP Metals

Project Code: TEC-926A
Account Code: 0809B10P402D43C1000ON00

CC: Renee Nordeen, Ecology and Environment

The following is a quality assurance review of the results of the analysis of 5 soil samples for TCLP metals. These samples were submitted for the Old McCall Landfill Project. The analyses were performed by EPA chemists at the US EPA Region 10 Laboratory in Port Orchard, WA, following US EPA and Laboratory guidelines.

This review was conducted for the following samples:

08304201 08304203 08304208 08304212 08304220

Data Qualifications

Comments below refer to the quality control specifications outlined in the Laboratory's current Quality Assurance Manual, Standard Operating Procedures (SOPs) and the Quality Assurance Project Plan (QAPP). No excursions were required from the method Standard Operating Procedure.

The quality control measures which did not meet Laboratory/QAPP criteria are annotated in the title of each affected subsection with "Laboratory/QAPP Criteria Not Met".

For those tests for which the USEPA Region 10 Laboratory has been accredited by the National Environmental Laboratory Accreditation Conference (NELAC), all requirements of the current NELAC Standard have been met. The Region 10 Laboratory's Quality System has been accredited to the standards of the National Environmental Laboratory Accreditation Conference (NELAC).

1. Sample Transport and Receipt – Laboratory/QAPP Criteria Not Met

Refer to the Corrective Action Notices dated 08/04/2008 for a record of observations made during sample receipt. The concerns were clerical in nature and did not impact data quality.

2. Sample Holding Times

The concentration of an analyte in a sample or sample extract may increase or decrease over time depending on the nature of the analyte. For this reason, holding time limits are recommended for samples. The samples covered by this review met method holding time recommendations, where applicable.

3. Sample Preparation

Samples were prepared according to the method outlined in the SOP for these analytes for this type of matrix. No qualification of the data was required based on sample preparation.

4. Initial Calibration and Calibration Verification

The linear regression generated for the initial calibration met method criteria. All calibration verification checks met the frequency and recovery criteria on the day of analysis. No qualification was required based on calibration or calibration verification.

5. Laboratory Control Samples - Laboratory/QAPP Criteria Not Met

All laboratory control sample results met the recovery acceptance criterion (85 – 115% of the standard^{*} true value) for the method, with the exception of silver, which had recoveries of 65%/68%/68%. The spiking levels for silver required by the method are too high to be retained in solution by the method, so that low recoveries for silver are typical. All silver results were qualified (J), estimated. No other qualification was required based on laboratory control sample analysis.

6. Blank Analysis – Laboratory/QAPP Criteria Not Met

The method blanks did not contain detectable levels of the analytes of interest, with the exception of barium in the extraction blank. Barium is often observed in this blank, and has been traced to the filters that are required by the method. All barium results were qualified (J), estimated. Note that all sample barium levels were significantly below regulatory limits.

7. Duplicate Analysis – Laboratory/QAPP Criteria Not Met

Duplicate analysis was performed on sample 08304208. Sample results which were greater than the LRS level were within the $\pm 20\%$ RPD requirement with the exception of barium (24% RPD). All barium results were qualified (J), estimated. No other qualification was required based on duplicate analysis.

8. Matrix Spike/Matrix Spike Duplicate Analysis

Matrix spike analyses were performed on sample 08304208. Sample results were within the +/- 75-125% recovery requirements. No qualification was required based on matrix spike analyses.

9. Interferences – Laboratory/QAPP Criteria Not Met

Serial dilution and interelement correction checks were analyzed to demonstrate that interferences were under control. All results of these checks met laboratory acceptance criteria with the exception of barium (11% difference). Barium results for all samples are already qualified (J), estimated, because of contamination in the extraction blank and high %RPD in the duplication analysis.

10. Reporting Limits

All sample results that fall below the MRL are assigned the value of the MRL and the 'U' qualifier is attached.

11. Data Qualifiers

All barium results were qualified (J), estimated, due to contamination in the extraction blank, duplication and interference samples recoveries.

All silver results were qualified (J), estimated, due to low recoveries for laboratory control samples.

No other data qualification was required for this analysis.

Below are the definitions for the codes used for qualifying data from these analyses. When more than one quality issue was involved, the most restrictive qualifier has been attached to the data.

U - The analyte was not detected at or above the reported value.

J - The identification of the analyte is acceptable; however the reported value is an estimate.

UJ - The analyte was not detected at or above the reported value. The reported value is an estimate.

The usefulness of qualified data should be treated according to the severity of the qualifier in light of the project's data quality objectives. Should questions arise regarding the data, contact Katie Adams at the Region 10 Laboratory, phone number (360) 871- 8748.

12. Definitions

Accuracy - the degree of conformity of a measured or calculated quantity to its actual value.

Duplicate Analysis – when a duplicate of a sample (DS), a matrix spike (MSD), or a laboratory control sample (LCSD) is analyzed, it is possible to use the comparison of the results in terms of relative percent difference (RPD) to calculate precision.

Internal standards - Compounds used to help evaluate instrument analytical performance for individual samples.
Internal standards provide an instrument response for reference to accurately quantify the analytes for all associated instrumental analyses.

Laboratory Control Sample (LCS) - a clean matrix spiked with known quantities of analytes. The LCS is processed with samples through every step of preparation and analysis. Measuring percent recovery of each analyte in the LCS provides a measurement of accuracy for the analyte in the project samples. A laboratory control sample is prepared and analyzed at a frequency no less than one for every 20 project samples.

Matrix Spike/Matrix Spike Duplicate (MS/MSD) - Sample analyses performed to provide information about the effect of the sample matrix on analyte recovery and measurement within the project samples. To create the MS/MSD, a project sample is spiked with known quantities of analytes and the percent recoveries of the analytes are determined.

Method Blank- An analytical control that is carried through the entire analytical procedure. The method blank is used to define the level of laboratory background and reagent contamination. A method blank is prepared and analyzed for every batch of samples at a minimum frequency of one per every 20 samples. To produce unqualified data, the result of the method blank analysis is required to be less than the MRL and less than 10 times the amount of analyte found in any project sample.

Minimum Reporting Level (MRL) - the smallest measured concentration of a substance that can be reliably measured using a given analytical method.

Peak Integrations - The output of many analytical instruments is a peak which represents the quantity of analyte in the sample. The instrument automatically integrates the peak area to provide the concentration of the analyte; however, sometimes these peaks need to be manually integrated by the analyst.

Precision – the degree of mutual agreement or repeatability among a series of individual results.

Reference materials – Samples with analyte values that are homogeneous and well established. This allows the reference material to be used to assess the accuracy of the measurement method.

Relative Percent Difference – The difference between two sample results divided by their mean and expressed as a percentage.

Manchester Environmental Laboratory
Report by Parameter for Project TEC-926A

Project Code:	TEC-926A	Collected:	7/30/08	10:05:00
Project Name:	OLD MCCALL LANDFILL MCCALL, ID	Matrix:	Solid	
Project Officer:	JOANNE LABAW	Sample Number:	08304201	
Account Code:	0809B10P402D43C1000ON00	Type:	Reg sample	
Station Description:	MC01SB12			

			Result	Units	Qlfr
MET					
Parameter	: Metals, ICP-TCLP		Wet Weight		Container ID : N1
Method	: 6010B	Inductively Coupled Plasma-Atomic Emission Spectrometry, SW-846 (22 elements)			Analysis Date : 9/18/2008
Prep Method	: 1311	TCLP Extraction-Metals			Prep Date : 9/17/2008
Analytes(s):	7440382	Arsenic	45	ug/L	U
	7440393	Barium	1000	ug/L	J
	7440439	Cadmium	53.9	ug/L	
	7440473	Chromium	10	ug/L	U
	7439921	Lead	744	ug/L	
	7782492	Selenium	50	ug/L	U
	7440224	Silver	10	ug/L	UJ

Manchester Environmental Laboratory
Report by Parameter for Project TEC-926A

Project Code:	TEC-926A	Collected:	7/30/08	11:45:00
Project Name:	OLD MCCALL LANDFILL MCCALL, ID	Matrix:	Solid	
Project Officer:	JOANNE LABAW	Sample Number:	08304203	
Account Code:	0809B10P402D43C1000ON00	Type:	Reg sample	
Station Description:	MC03SB12			

			Result	Units	Qlfr
MET					
Parameter	: Metals, ICP-TCLP			Wet Weight	Container ID : N1
Method	: 6010B	Inductively Coupled Plasma-Atomic Emission Spectrometry, SW-846 (22 elements)			Analysis Date : 9/18/2008
Prep Method	: 1311	TCLP Extraction-Metals			Prep Date : 9/17/2008
Analytes(s):	7440382	Arsenic	45	ug/L	U
	7440393	Barium	1300	ug/L	J
	7440439	Cadmium	8.9	ug/L	
	7440473	Chromium	10	ug/L	U
	7439921	Lead	127	ug/L	
	7782492	Selenium	50	ug/L	U
	7440224	Silver	10	ug/L	UJ

Manchester Environmental Laboratory
Report by Parameter for Project TEC-926A

Project Code:	TEC-926A	Collected:	7/30/08	14:15:00
Project Name:	OLD MCCALL LANDFILL MCCALL, ID	Matrix:	Solid	
Project Officer:	JOANNE LABAW	Sample Number:	08304208	
Account Code:	0809B10P402D43C1000ON00	Type:	Reg sample	
Station Description:	MC05SB08			

		Result	Units	Qlfr
MET				
Parameter	: Metals, ICP-TCLP		Wet Weight	Container ID : N1
Method	: 6010B	Inductively Coupled Plasma-Atomic Emission Spectrometry, SW-846 (22 elements)		Analysis Date : 9/18/2008
Prep Method	: 1311	TCLP Extraction-Metals		Prep Date : 9/17/2008
Analytes(s):				
7440382	Arsenic	45	ug/L	U
7440393	Barium	530	ug/L	J
7440439	Cadmium	5.0	ug/L	U
7440473	Chromium	10	ug/L	U
7439921	Lead	30	ug/L	U
7782492	Selenium	50	ug/L	U
7440224	Silver	10	ug/L	UJ

Manchester Environmental Laboratory
Report by Parameter for Project TEC-926A

Project Code:	TEC-926A	Collected:	7/30/08	14:15:00
Project Name:	OLD MCCALL LANDFILL MCCALL, ID	Matrix:	Solid	
Project Officer:	JOANNE LABAW	Sample Number:	08304208	
Account Code:	0809B10P402D43C1000ON00	Type:	Duplicate	
Station Description:				

			Result	Units	Qlfr
MET					
Parameter	: Metals, ICP-TCLP			Wet Weight	
Method	: 6010B	Inductively Coupled Plasma-Atomic Emission Spectrometry, SW-846 (22 elements)		Container ID :	
Prep Method	: 1311	TCLP Extraction-Metals		Analysis Date : 9/18/2008 39:28	Prep Date : 9/17/2008
Analytes(s):					
7440382	Arsenic	45	ug/L	U	
7440393	Barium	670	ug/L	J	
7440439	Cadmium	5.0	ug/L	U	
7440473	Chromium	10	ug/L	U	
7439921	Lead	30	ug/L	U	
7782492	Selenium	50	ug/L	U	
7440224	Silver	10	ug/L	UJ	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-926A

Project Code:	TEC-926A	Collected:	7/30/08	14:15:00
Project Name:	OLD MCCALL LANDFILL MCCALL, ID	Matrix:	Solid	
Project Officer:	JOANNE LABAW	Sample Number:	08304208	
Account Code:	0809B10P402D43C1000ON00	Type:	Matrix Spike	
Station Description:				

		Result	Units	Qlfr
MET				
Parameter : Metals, ICP-TCLP			Wet Weight	Container ID : N1
Method : 6010B	Inductively Coupled Plasma-Atomic Emission Spectrometry, SW-846 (22 elements)			Analysis Date : 9/18/2008
Prep Method : 1311	TCLP Extraction-Metals			Prep Date : 9/17/2008
Surrogate(s : 7440382	Arsenic	104	%Rec	
7440393	Barium	93	%Rec	
7440439	Cadmium	95	%Rec	
7440473	Chromium	91	%Rec	
7439921	Lead	91	%Rec	
7782492	Selenium	111	%Rec	
7440224	Silver	80	%Rec	

Manchester Environmental Laboratory
Report by Parameter for Project TEC-926A

Project Code:	TEC-926A	Collected:	7/30/08	14:15:00
Project Name:	OLD MCCALL LANDFILL MCCALL, ID	Matrix:	Solid	
Project Officer:	JOANNE LABAW	Sample Number:	08304208	
Account Code:	0809B10P402D43C1000ON00	Type:	Matrix Spike Dupl	
Station Description:				

		Result	Units	Qlfr
MET				
Parameter	: Metals, ICP-TCLP			
Method	: 6010B	Inductively Coupled Plasma-Atomic Emission Spectrometry, SW-846 (22 elements)	Wet Weight	Container ID : N1
		TCLP Extraction-Metals		Analysis Date : 9/18/2008
Prep Method	: 1311			Prep Date : 9/17/2008
Surrogate(s	: 7440382	Arsenic	104	%Rec
	7440393	Barium	94	%Rec
	7440439	Cadmium	95	%Rec
	7440473	Chromium	91	%Rec
	7439921	Lead	91	%Rec
	7782492	Selenium	109	%Rec
	7440224	Silver	79	%Rec

Manchester Environmental Laboratory
Report by Parameter for Project TEC-926A

Project Code:	TEC-926A	Collected:	7/30/08	15:35:00
Project Name:	OLD MCCALL LANDFILL MCCALL, ID	Matrix:	Solid	
Project Officer:	JOANNE LABAW	Sample Number:	08304212	
Account Code:	0809B10P402D43C1000ON00	Type:	Reg sample	
Station Description:	MC07SB07			

			Result	Units	Qlfr
MET					
Parameter	: Metals, ICP-TCLP			Wet Weight	Container ID : N1
Method	: 6010B	Inductively Coupled Plasma-Atomic Emission Spectrometry, SW-846 (22 elements)			Analysis Date : 9/18/2008
Prep Method	: 1311	TCLP Extraction-Metals			Prep Date : 9/17/2008
Analytes(s):	7440382	Arsenic	45	ug/L	U
	7440393	Barium	1200	ug/L	J
	7440439	Cadmium	5.0	ug/L	U
	7440473	Chromium	10	ug/L	U
	7439921	Lead	30	ug/L	U
	7782492	Selenium	50	ug/L	U
	7440224	Silver	10	ug/L	UJ

Manchester Environmental Laboratory
Report by Parameter for Project TEC-926A

Project Code:	TEC-926A	Collected:	7/31/08	10:05:00
Project Name:	OLD MCCALL LANDFILL MCCALL, ID	Matrix:	Solid	
Project Officer:	JOANNE LABAW	Sample Number:	08304220	
Account Code:	0809B10P402D43C1000ON00	Type:	Reg sample	
Station Description:	MC09SB06			

			Result	Units	Qlfr
MET					
Parameter	: Metals, ICP-TCLP			Wet Weight	Container ID : N1
Method	: 6010B	Inductively Coupled Plasma-Atomic Emission Spectrometry, SW-846 (22 elements)			Analysis Date : 9/18/2008
Prep Method	: 1311	TCLP Extraction-Metals			Prep Date : 9/17/2008
Analytes(s):	7440382	Arsenic	45	ug/L	U
	7440393	Barium	1200	ug/L	J
	7440439	Cadmium	5.0	ug/L	U
	7440473	Chromium	10	ug/L	U
	7439921	Lead	30	ug/L	U
	7782492	Selenium	50	ug/L	U
	7440224	Silver	10	ug/L	UJ

Manchester Environmental Laboratory
Report by Parameter for Project TEC-926A

Project Code:	TEC-926A	Collected:	0:00:00
Project Name:	OLD MCCALL LANDFILL MCCALL, ID	Matrix:	Solid
Project Officer:	JOANNE LABAW	Sample Number:	IT082508ABL
Account Code:	0809B10P402D43C1000ON00	Type:	Blank
Station Description:			

		Result	Units	Qlfr
MET				
Parameter :	Metals, ICP-TCLP		Wet Weight	Container ID :
Method :	6010B		Inductively Coupled Plasma-Atomic Emission Spectrometry, SW-846 (22 elements)	Analysis Date : 9/18/2008
Prep Method :	1311		TCLP Extraction-Metals	Prep Date : 9/17/2008
Analytes(s):				
7440382	Arsenic	45	ug/L	U
7440393	Barium	374	ug/L	U
7440439	Cadmium	5.0	ug/L	U
7440473	Chromium	10	ug/L	U
7439921	Lead	30	ug/L	U
7782492	Selenium	50	ug/L	U
7440224	Silver	10	ug/L	U

11/7/08

Manchester Environmental Laboratory
Report by Parameter for Project TEC-926A

Page 10 of 13

Project Code:	TEC-926A	Collected:	0:00:00
Project Name:	OLD MCCALL LANDFILL MCCALL, ID	Matrix:	Solid
Project Officer:	JOANNE LABAW	Sample Number:	IT082508AL1
Account Code:	0809B10P402D43C1000ON00	Type:	LCS
Station Description:			

		Result	Units	Qlfr
MET				
Parameter	: Metals, ICP-TCLP		Wet Weight	
Method	: 6010B	Inductively Coupled Plasma-Atomic Emission Spectrometry, SW-846 (22 elements)		Container ID : Analysis Date : 9/18/2008
Prep Method	: 1311	TCLP Extraction-Metals		Prep Date : 9/17/2008
Surrogate(s)				
7440382	Arsenic	103	%Rec	
7440393	Barium	94	%Rec	
7440439	Cadmium	94	%Rec	
7440473	Chromium	91	%Rec	
7439921	Lead	90	%Rec	
7782492	Selenium	110	%Rec	
7440224	Silver	68	%Rec	

IT082508AL LCS

Manchester Environmental Laboratory
Report by Parameter for Project TEC-926A

Project Code:	TEC-926A	Collected:	0:00:00
Project Name:	OLD MCCALL LANDFILL MCCALL, ID	Matrix:	Solid
Project Officer:	JOANNE LABAW	Sample Number:	IT082508AL2
Account Code:	0809B10P402D43C1000ON00	Type:	LCSD
Station Description:			

		Result	Units	Qlfr
MET				
Parameter	: Metals, ICP-TCLP		Wet Weight	Container ID :
Method	: 6010B	Inductively Coupled Plasma-Atomic Emission Spectrometry, SW-846 (22 elements)		Analysis Date : 9/18/2008
Prep Method	: 1311	TCLP Extraction-Metals		Prep Date : 9/17/2008
Surrogate(s	: 7440382	Arsenic	101	%Rec
	7440393	Barium	93	%Rec
	7440439	Cadmium	94	%Rec
	7440473	Chromium	90	%Rec
	7439921	Lead	90	%Rec
	7782492	Selenium	106	%Rec
	7440224	Silver	68	%Rec

Manchester Environmental Laboratory
Report by Parameter for Project TEC-926A

Project Code:	TEC-926A	Collected:	0:00:00
Project Name:	OLD MCCALL LANDFILL MCCALL, ID	Matrix:	Solid
Project Officer:	JOANNE LABAW	Sample Number:	IW091708A
Account Code:	0809B10P402D43C1000ON00	Type:	Blank
Station Description:			

		Result	Units	Qlfr
MET				
Parameter	: Metals, ICP-TCLP		Wet Weight	
Method	: 6010B	Inductively Coupled Plasma-Atomic Emission Spectrometry, SW-846 (22 elements)		Container ID : Analysis Date : 9/18/2008
Prep Method	: 1311	TCLP Extraction-Metals		Prep Date : 9/17/2008
Analytes(s):				
7440382	Arsenic	45	ug/L	U
7440393	Barium	2.0	ug/L	U
7440439	Cadmium	5.0	ug/L	U
7440473	Chromium	10	ug/L	U
7439921	Lead	30	ug/L	U
7782492	Selenium	50	ug/L	U
7440224	Silver	10	ug/L	U

Manchester Environmental Laboratory
Report by Parameter for Project TEC-926A

Project Code:	TEC-926A	Collected:	0:00:00
Project Name:	OLD MCCALL LANDFILL MCCALL, ID	Matrix:	Solid
Project Officer:	JOANNE LABAW	Sample Number:	IW091708A
Account Code:	0809B10P402D43C1000ON00	Type:	Spike Blank
Station Description:			

		Result	Units	Qlfr
MET				
Parameter	: Metals, ICP-TCLP		Wet Weight	Container ID :
Method	: 6010B	Inductively Coupled Plasma-Atomic Emission Spectrometry, SW-846 (22 elements)		Analysis Date : 9/18/2008
Prep Method	: 1311	TCLP Extraction-Metals		Prep Date : 9/17/2008
Surrogate(s	: 7440382	Arsenic	102	%Rec
	7440393	Barium	98	%Rec
	7440439	Cadmium	102	%Rec
	7440473	Chromium	98	%Rec
	7439921	Lead	101	%Rec
	7782492	Selenium	103	%Rec
	7440224	Silver	65	%Rec

E

Global Positioning System Coordinates

Table E-1 Global Positioning System Data

Sample Number	Sample Description	Sample Date	Latitude	Longitude	Elevation (feet)
MC21SG	Soil Gas	7/31/2008	44.905411	-116.091883	1548
MC22SG	Soil Gas	7/31/2008	44.905405	-116.092096	1548
MC23SG	Soil Gas	7/31/2008	44.905492	-116.092601	1547
MC24SG	Soil Gas	7/31/2008	44.905718	-116.092652	1545
PIT 1	Trench 1	7/30/2008	44.905803	-116.092699	1545
PIT 2	Trench 2	7/30/2008	44.905588	-116.092791	1545
PIT 3	Trench 3	7/31/2008	44.905635	-116.091946	1548
PIT 4	Trench 4	7/31/2008	44.905452	-116.092201	1548
PIT 5	Trench 5	7/31/2008	44.90538	-116.091789	1548

F

Remedial Action Cost Engineering and Requirements Estimate Documentation Reports

APPENDIX F

The cost estimates included in this appendix were created by utilizing cost estimating software called Remedial Action Cost Engineering and Requirements (RACER®). RACER® is a Windows-based cost estimating computer program that was originally developed for the United States Air Force in 1992 and has since grown to meet the needs of various federal agencies and departments, including United States Army Corp of Engineers and United States Environmental Protection Agency.

When creating an estimate in RACER®, site-specific parameters are added to generic engineering solutions to reflect project-specific conditions and requirements. The software includes numerous pre-defined remedies (referred to as "technologies"), allowing flexibility in selecting a presumptive remedy for a given site. After selecting a remedy, RACER® prompts the user to enter quantities of key input parameters, whether actual or estimated. For example, for a soil excavation and disposal estimate, input entries include contamination area and depth, soil type, analytical testing requirements, waste type (hazardous or non-hazardous), and distance to disposal facility. After entering these site-specific parameters, RACER® automatically calculates resulting volumes along with associated excavation, testing, and disposal costs. These costs are generated using pre-defined assemblies for the selected remedy that use cost data from the RACER® cost database, based primarily on the current Unit Price Book (UPB).

The RACER® database also includes a number of specialized assemblies that are not derived from the UPB. Costs for assemblies in the RACER® database are updated annually.

Estimate Documentation Report

System:

RACER Version: 10.0.2
Database Location: P:\RACER Cost Estimates\RACER Cost Estimates.mdb

Folder:

Folder Name: Idaho

Region:

Region ID: NA
Region Name: McCall
Region Category: None

Location

State / Country: IDAHO
City: IDAHO STATE AVERAGE

Location Modifier	Default	User
	0.978	0.978

Options

Database: Modified System
Cost Database Date: 2008
Report Option: Calendar

Description Cost estimate for McCall Old City Dump Site

Estimate Documentation Report

Site Documentation:

Site ID: NA

Site Name: McCall: Option 1 - Removal

Site Type: None

Media/Waste Type

Primary: Soil

Secondary: Air

Contaminant

Primary: Volatile Organic Compounds (VOCs)

Secondary: Metals

Phase Names

Pre-Study:

Study:

Design:

Removal/Interim Action:

Remedial Action:

Operations & Maintenance:

Long Term Monitoring:

Site Closeout:

Documentation

Description: McCall Old City Dump Site. Small municipal landfill not used for 50 years. Landfill footprint approx. 1.5 acres (top). North, east, and west sides sloped to existing grade. South side approx. level. Five exploratory trenches excavated to landfill bottom. Landfill bottom encountered in Trenches 1 and 2 at 12' bgs; Trenches 3 and 5 and 6' bgs; and Trench 4 at 7' bgs. Assume average landfill depth 9'.

Support Team: E&E

References: RSMeans Heavy Construction Cost Data, 22nd Annual Edition, 2008

Estimator Information

Estimator Name: Chad Nancarrow

Estimator Title: Civil Engineer

Agency/Org./Office: Ecology & Environment, Inc.

Business Address: 720 Third Ave., Suite 1700
Seattle, WA 98104

Telephone Number: 206-624-9537

Email Address: cnancarrow@ene.com

Estimate Prepared Date: 01/15/2009

Estimator Signature: _____

Date: _____

Estimate Documentation Report

Reviewer Information

Reviewer Name: Alexander Whitman
Reviewer Title: Engineering Manager
Agency/Org./Office: Ecology & Environment, Inc.
Business Address: 720 Third Ave., Suite 1700
Seattle, WA 98104
Telephone Number: 206-624-9537
Email Address: awhitman@ene.com
Date Reviewed: 01/15/2009

Reviewer Signature: _____ Date: _____

Estimated Costs:

Phase Names	Direct Cost	Marked-up Cost
Excavation and Offsite Disposal	\$1,673,423	\$2,072,577
Total Cost:	\$1,673,423	\$2,072,577
Escalation:	\$38,489	\$47,669
Total Site Cost:	\$1,711,911	\$2,120,246

Estimate Documentation Report

Phase Documentation:

Phase Type: Remedial Action

Phase Name: Excavation and Offsite Disposal

Description: Cost estimate for removal of landfill material with offsite disposal at non-haz facility (RCRA D landfill) followed by backfilling (compacted) and grading with clean import fill.

Landfill dimensions: 1.5 acres footprint; 9' deep average (21,780 cy plus swell factor).

Per subsurface soil sample analytical data (TCLP analysis), it appears the excavated material can be disposed at a RCRA D landfill facility (non-haz). That is, the TCLP results for barium, cadmium, and lead are all below the toxicity characteristic regulatory levels of 100.0 mg/l (barium), 1.0 mg/l (cadmium), and 5.0 mg/l (lead) per 40 CFR, Part 261.24.

Disposal would likely occur at Simco Road Landfill, owned and operated by Idaho Waste Systems. Per communication with the landfill owner, disposal costs (not including transportation) would be \$16.50/ton (or approx. \$24.75/cy assuming 1.5 tons/cy).

Simco Road Landfill is located near Mountain Home, ID, or approx. 140 miles from McCall.

Estimate includes costs for confirmation and waste characterization sampling and analytical testing (121 sample points/locations with 24-72 hour turnaround).

Approach: Ex Situ

Start Date: January, 2009

Labor Rate Group: Marked Up Labor Rates_E&E

Analysis Rate Group: System Analysis Rate

Phase Markups: Markups_E&E

Technology Markups	Markup	% Prime	% Sub.
Excavation	Yes	100	0
Decontamination Facilities	Yes	100	0
Residual Waste Management	Yes	100	0
Professional Labor Management	Yes	100	0

Total Marked-up Cost: \$2,072,577

Technologies:

Estimate Documentation Report

Technology Name: Excavation (# 1)

<u>Description</u>	<u>Default</u>	<u>Value</u>	<u>UOM</u>
System Definition			
Required Parameters			
Estimating Method		Area / Depth	n/a
Area		1.5	AC
Depth		9	FT
Soil Type		Sand/Gravelly Sand Mixture	n/a
Safety Level		D	n/a
Excavation			
Secondary Parameters			
Existing Cover	Soil/Gravel	Soil/Gravel	n/a
Replacement Cover	Soil/Seeding	Soil/Seeding	n/a
Sidewall Protection	Side Sloping	Side Sloping	n/a
Rise : Run	1	1	n/a
% of Excavated Material To Be Used as Backfill	7	0	%
Source of Additional Fill	Off Site	Off Site	n/a
Backfill Hauling Distance (one way)	10	10	MI
Dewatering Required	No	No	n/a
Analytical			
Secondary Parameters			
Primary Analytical Template	System Soil - VOCs	System Soil - VOCs	n/a
Secondary Analytical Template	System Soil - Metals	System Soil - Metals	n/a
Number of Sampling Points/Locations	121	121	EA
Number of Composites Submitted to Lab	31	31	EA
Turnaround Time	Standard (21 Days)	24-72 Hour	n/a
Submit Data Electronically	Yes	Yes	n/a
Data Package / QC	Stage 1	Stage 3	n/a
Lab Data Review	Stage 1	Stage 3	n/a
Sampling Reports	Abbreviated	Standard	n/a

Comments:

Estimate Documentation Report

Technology Name: Decontamination Facilities (# 1)

<i>Description</i>	<i>Default</i>	<i>Value</i>	<i>UOM</i>
System Definition			
Required Parameters			
New Decontamination Facility Pad Construction		No	n/a
Equipment Rating		n/a	n/a
Equipment Decontamination Operations		Yes	n/a
Equipment Decontamination Operations: Duration		3	weeks
Personnel Decontamination Trailers		No	n/a
Personnel Decontamination Trailers: Average Crew Size		0	per shift
Personnel Decontamination Trailers: Duration		0	weeks
Safety Level		D	n/a
Work Shifts			
Secondary Parameters			
Equipment Decontamination		One Shift per Day	n/a
Personnel Decontamination		n/a	n/a
Comments:			

Technology Name: Residual Waste Management (# 1)

<i>Description</i>	<i>Default</i>	<i>Value</i>	<i>UOM</i>
System Definition			
Required Parameters			
Safety Level		D	n/a
Non-Rad Disposal			
Required Parameters			
Waste Type / Condition		Non-Hazardous Bulk Solid	n/a
Total Quantity		26,918	CY
Transportation Type		Truck	n/a
Truck Distance (One-way)		140	Miles
Comments:			

Estimate Documentation Report

Technology Name: Professional Labor Management (# 1)

<u>Description</u>	<u>Default</u>	<u>Value</u>	<u>UOM</u>
System Definition			
Required Parameters			
Markedup Construction Cost (\$)		2,101,950	\$
Percentage	15.9	2.5	%
Dollar Amount		52,549	\$

Comments:

Estimate Documentation Report

System:

RACER Version: 10.0.2
Database Location: R:\RACER Cost Estimates\RACER Cost Estimates.mdb

Folder:

Folder Name: Idaho

Region:

Region ID: NA
Region Name: McCall
Region Category: None

Location

State / Country: IDAHO
City: IDAHO STATE AVERAGE

Location Modifier	Default	User
	0.978	0.978

Options

Database: Modified System
Cost Database Date: 2008
Report Option: Calendar

Description Cost estimate for McCall Old City Dump Site

Estimate Documentation Report

Site Documentation:

Site ID: NA

Site Name: McCall: Option 2 - Cap & Foundation Slab

Site Type: None

Media/Waste Type

Primary: Soil

Secondary: Air

Contaminant

Primary: Volatile Organic Compounds (VOCs)

Secondary: Metals

Phase Names

Pre-Study:

Study:

Design:

Removal/Interim Action:

Remedial Action:

Operations & Maintenance:

Long Term Monitoring:

Site Closeout:

Documentation

Description: McCall Old City Dump Site. Small municipal landfill not used for 50 years. Landfill footprint approx. 1.5 acres (top). North, east, and west sides sloped to existing grade. South side approx. level. Five exploratory trenches excavated to landfill bottom. Landfill bottom encountered in Trenches 1 and 2 at 12' bgs; Trenches 3 and 5 and 6' bgs; and Trench 4 at 7' bgs. Assume average landfill depth 9'.

Support Team: E&E

References: RSMeans Heavy Construction Cost Data, 22nd Annual Edition, 2008

Estimator Information

Estimator Name: Chad Nancarrow

Estimator Title: Civil Engineer

Agency/Org./Office: Ecology & Environment, Inc.

Business Address: 720 Third Ave., Suite 1700
Seattle, WA 98104

Telephone Number: 206-624-9537

Email Address: cnancarrow@ene.com

Estimate Prepared Date: 02/23/2009

Estimator Signature: _____

Date: _____

Estimate Documentation Report

Reviewer Information

Reviewer Name: Alexander Whitman
Reviewer Title: Engineering Manager
Agency/Org./Office: Ecology & Environment, Inc.
Business Address: 720 Third Ave., Suite 1700
Seattle, WA 98104
Telephone Number: 206-624-9537
Email Address: awhitman@ene.com
Date Reviewed: 02/23/2009

Reviewer Signature: _____ Date: _____

Estimated Costs:

Phase Names	Direct Cost	Marked-up Cost
Cap & Foundation Slab	\$917,863	\$1,285,993
Total Cost:	\$917,863	\$1,285,993
Escalation:	\$21,111	\$29,578
Total Site Cost:	\$938,974	\$1,315,571

Estimate Documentation Report

Phase Documentation:

Phase Type: Remedial Action
Phase Name: Cap & Foundation Slab
Description: Cost estimate for capping landfill (w/out removal), followed by concrete slab foundation of increased thickness to withstand the stresses caused by differential settlement.

Assume cap footprint of 2 acres to extend beyond the limits of the landfill.
Assume RCRA C-type cap with composite barrier (consisting of 40 mil HDPE geomembrane and a geosynthetic clay liner); drainage layer; and a landfill gas control system.

Assume 2 apartment complexes to be constructed, each with 8,000 sf footprint or 16,000 sf total. Assume foundation consisting of 2 feet thick structural slab on grade underlain with 1 foot of crushed gravel.

Approach: Ex Situ
Start Date: January, 2009
Labor Rate Group: Marked Up Labor Rates_E&E
Analysis Rate Group: System Analysis Rate
Phase Markups: Markups_E&E

Technology Markups	Markup	% Prime	% Sub.
Capping	Yes	100	0
FOUNDATION	Yes	100	0
Professional Labor Management	Yes	100	0

Total Marked-up Cost: \$1,285,993

Technologies:

Estimate Documentation Report

Technology Name: Capping (# 1)

Description	Default	Value	UOM
System Definition			
Required Parameters			
Type of Cap		RCRA C (Hazardous Waste) Cap	n/a
Acres		2	AC
Length		417.4207	FT
Width		208.7103	FT
Safety Level		D	n/a
General			
Secondary Parameters			
Side Slope of Cap	3	3	n/a
Horizontal Projection of Side Slope	52	52	FT
Horizontal Projection of Top Slope	52	52	FT
RCRA C			
Secondary Parameters			
Surface Layer Type	Vegetated Layer	Vegetated Layer	n/a
Surface Layer Thickness	6	6	IN
Surface Layer Borrow Source	Off-site	Off-site	n/a
Protection Layer Thickness	24	24	IN
Protection Layer Borrow Source	Off-site	Off-site	n/a
Drainage Layer Type	Geocomposite	Geocomposite	n/a
Composite Barrier: Geomembrane Type	40 Mil HDPE	40 Mil HDPE	n/a
Composite Barrier: Compacted Clay Layer Type	Geosynthetic Clay Liner	Geosynthetic Clay Liner	n/a
Foundation Layer Thickness	12	12	IN
Foundation Layer Borrow Source	Off-site	Off-site	n/a
Gas Vent System		Yes	n/a
Waste Depth		12	FT

Comments:

Estimate Documentation Report

Technology Name: User Defined Estimate (# 1)

User Name: FOUNDATION

Description	Default	Value	UOM
System Definition			
Required Parameters			
Model Name	FOUNDATION	n/a	
WBS Type	HTRW	n/a	
Selected WBS	331.03.90	n/a	
Safety Level	D	n/a	

Comments:

Technology Name: Professional Labor Management (# 1)

Description	Default	Value	UOM
System Definition			
Required Parameters			
Markedup Construction Cost (\$)		742,560	\$
Percentage	18.7	10	%
Dollar Amount		74,256	\$

Comments: